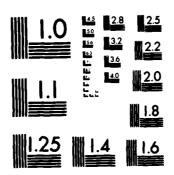
AD-A170 953 1/2 UNCLASSIFIED F/G 6/19 NI.



MICROCOPY RESOLUTION TEST CHART NATIONAL BUREAU OF STANDARDS 1963-A

T .

AAMRL-TR-86-020 Volume 2



EXPLORATORY STUDY OF THE POTENTIAL EFFECTS OF EXPOSURE TO SONIC BOOM ON HUMAN HEALTH

Volume 2. Epidemiological Study

H. ANTON-GUIRGIS
B. D. CULVER
S. WANG
T. H. TAYLOR

UNIVERSITY OF CALIFORNIA, IRVINE DEPT. OF COMMUNITY & ENVIRONMENTAL MEDICINE IRVINE, CALIFORNIA 92717

JUNE 1986

Approved for public release; distribution unlimited.

HARRY G. ARMSTRONG AEROSPACE MEDICAL RESEARCH LABORATORY AEROSPACE MEDICAL DIVISION AIR FORCE SYSTEMS COMMAND WRIGHT-PAITERSON AIR FORCE BASE, OHIO 45433-6573

NOTICES

When US Government drawings, specifications, or other data are used for any purpose other than a definitely related Government procurement operation, the Government thereby incurs no responsibility nor any obligation whatsoever, and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data, is not to be regarded by implication or otherwise, as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

Please do not request copies of this report from the Armstrong Aerospace Medical Research Laboratory. Additional copies may be purchased from:

National Technical Information Service 5285 Port Royal Road Springfield, Virginia 22161

Federal Government agencies and their contractors registered with Defense Technical Information Center should direct requests for copies of this report to:

Defense Technical Information Center Cameron Station Alexandria, Virginia 22314

TECHNICAL REVIEW AND APPROVAL

AAMRL-TR-86-020, Vol. 2

This report has been reviewed by the Office of Public Affairs (PA) and is releasable to the National Technical Information Service (NTIS). At NTIS, it will be available to the general public, including foreign nations.

This technical report has been reviewed and is approved for publication.

FOR THE COMMANDER

HENNING E. VON GIERKE, Dr Ing

Director

Biodynamics and Bioengineering Division

Air Force Aerospace Medical Research Laboratory

	REPORT DOCUME	ENTATION PAG	E							
18 REPORT SECURITY CLASSIFICATION	16. RESTRICTIVE MARKINGS									
UNCLASSIFIED										
28. SECURITY CLASSIFICATION AUTHORITY	3. DISTRIBUTION/AVAILABILITY OF REPORT									
		Approved for public release;								
2b. DECLASSIFICATION/DOWNGRADING SCHEDU	JLE	distribution unlimited								
4 PERFORMING ORGANIZATION REPORT NUMB	ER(S)	5. MONITORING OR	IGANIZATION R	EPORT NUMBER	S)					
WR 86-1		AAMRL-TR-8	6-020. Vol	. 2	Į					
	Sb. OFFICE SYMBOL	78. NAME OF MONI								
University of California Invin	(If applicable)	AAMRL/BBE			<u>l</u>					
University of California, Irvine 6c. ADDRESS (City, State and ZIP Code)	ŧ	7b. ADDRESS (City,	State and ZIP Co	de)						
Dept of Community & Environmenta	al Medicine				l l					
Irvine, CA 92717		Wright-Pat	terson AFB	, OH 45433-6	5573					
8. NAME OF FUNDING/SPONSORING ORGANIZATION	Bb. OFFICE SYMBOL (If applicable)	9. PROCUREMENT I	NSTRUMENT IC	ENTIFICATION N	IUMBER					
AAMRL	BBE	F33615-81-	C-0500							
8c ADDRESS (City, State and ZIP Code)		10. SOURCE OF FUR	NDING NOS.							
Wright-Patterson AFB, OH 45433-6	5573	PROGRAM ELEMENT NO	PROJECT NO.	TASK NO.	WORK UNIT NO					
		62202F	7231	34	07					
11 TITLE (Include Security Classification) EXPLORATHE POTENTIAL EFFECTS OF EXPOSUR			, 201							
12. PERSONAL AUTHORISION HUMAN HEALTH			Sonie Book							
H. Anton-Guirais, B. D. Culver,										
13a. TYPE OF REPORT 13b. TIME CO	VERED	14. DATE OF REPOR		1	•					
Final FROM NO	<u>/ 84 то Мау 86</u>	June	1986	1	.72					
17. COSATI CODES FIELD GROUP SUB. GR. 06 19	18. SUBJECT TERMS (C Noise Sonic Boom Community Noi		ecessary and ident	ify by block numbe	er'					
19. ABSTRACT (Continue on reverse if necessary and i										
★ study has been carried out to exposure of people to sonic boo State of Nevada. This state wa operations have been carried ou Tactical Fighter Weapons Center other area within the United St study to search for any health	m. The subject s selected for t in Nevada, pr (TFWC) Range (ates. This vo	ts of the study the study bed rimarily withi Complex near L	iy were the cause super in the boun .as Vegas,	e residents esonic milit daries of t longer than	of the ary flight he in any					
The health effects study was bu mortality for Nevada residents morbidity data. The results of prove or disprove any relations phenomena. Statewide, age-adju	ilt entirely or from 1968 to 19 the statewide hip between exp sted mortality	983, supplemer study reveale posure to soni in Nevada is	nted by hosed no convi ic boom and unremarkab	pital disch ncing evide ladverse he le compared	arge nce to alth					
20 DISTRIBUTION/AVAILABILITY OF ABSTRACT		21. ABSTRACT SECU	JRITY CLASSIFI	CATION						
UNCLASSIFIED/UNLIMITED XX SAME AS RPT	DTIC USERS	UNCLASSIFI	ED		ABOL					
22a NAME OF RESPONSIBLE INDIVIDUAL		22b TELEPHONE NO	JMBER de)	22c OFFICE SYN	ABOL					
Charles S. Harris										

DD FORM 1473, 83 APR

EDITION OF 1 JAN 73 IS OBSOLETE.

SECURITY CLASSIFICATION OF THIS PAGE



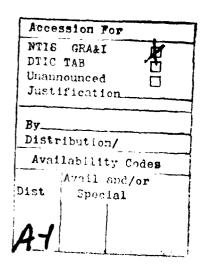
national figures. Crude death rates did vary directly with exposure to sonic booms but this relation disappeared when mortality was age-adjusted. Analyses of time trends and bivariate linear regressions failed to yield convincing associations between sonic boom exposure and age-adjusted mortality. Access to a population of weapons-range workers and to their health records, which was an additional key component of the research study, was not granted.

TABLE OF CONTENTS

			Page
1.0	INTRO	ODUCTION	. 1
2.0	METH	ю	. 3
	2.1	Data Collection	. 3
	2.2	Editing of Data Using SAS	. 4
	2.3	Variables Used for Data Analyses	. 5
	2.4	Integration and Reduction of Data	. 5
		2.4.1 Denominator Data	. 6
		2.4.2 Mortality Data	. 6
		2.4.3 Environmental Data	. 6
	2.5	Population Distribution and Data Generation	. 7
	2.6	Mortality Distribution Data Generation	. 7
	2.7	Generation of Environmental Data Distribution	. 9
	2.8	Merging of Data Sets	. 9
	2.9	Statistical Methods	. 9
	2.10	Statistical Tests	. 10
	2.11	Denominator Data Used to Calculate Rates	. 11
	2.12	Calculations on Environmental Data (CLDN)	. 11
	2.13	Hospital Discharge Diagnoses	. 11
	2.14	Survey to Arcata Personnel	. 12
3.0	RESU	LTS	. 14
	3.1	Crude Death Rates	. 14
	3.2	Age-Adjusted Mortality Rates by County	. 15
	3.3	Time Trends Using Mortality Data	. 16
	3.4	Correlations Using Mortality Data	
	3.5	Morbidity Studies	. 21
		3.5.1 Hospital Discharge Diagnoses	. 21
		3.5.2 Results of the Survey to Arcata Personnel	
4.0	DISCL	USSION	. 25
5.0	SILAAAA	ADV OF FINDINGS	27

TABLE OF CONTENTS (CONTINUED)

																						Page
REFERENCES	•		•		•		•		•								•					29
FIGURE 1 .	•				•		•	•				•									•	35
TABLES .	•	•			•		•	•								•	•					36-101
APPENDIX 1.	•	•	•			•			•		•							•				103
APPENDIX 2.	•	•		•		•	•	•		•	•		•	•	•	•		•				131
APPENDIX 3.	•		•		•	•	•	•	•						•							147
APPENDIX 4.	•		•		•	•	•	•	•		•		•		•				•			151
APPENDIX 5.	•	•	•		•	•		•	•			•				•						157
APPENDIX 6.	•				•				•													165





LIST OF TABLES

<u>Table</u>		Page
la	Race-specific population distribution for both sexes, by county, 1982-1983	. 36
lb	Race-specific population distribution for males, by county, 1982-1983	. 37
lc	Race-specific population distribution for females, by county, 1982-1983	. 38
2a	Age-specific population distribution for both sexes, by county, 1982-1983	. 39
2b	Age-specific population distribution for males, by county, 1982-1983	. 40
2 c	Age-specific population distribution for females, by county, 1982-1983	. 41
3a	Final version of age-specific population distribution for both sexes, by county, 1982-1983	. 42
3b	Final version of age-specific population distribution for males, by county, 1982-1983	. 43
3c	Final version of age-specific population distribution for females, by county, 1982-1983	. 44
4	Population of Residents by Township Nevada: 1968-1983	. 45
5a	Race-specific population distribution for both sexes, by county, during the time interval between 1980 to 1983	. 47
5b	Race-specific population distribution for males, by county, during the time interval between 1980 to 1983	. 47
5 c	Race-specific population distribution for females, by county, during the time interval between 1980 to 1983	. 48
6a	Age-specific population distribution for both sexes, by county, during the time interval between 1980 to 1983	. 49
6b	Age-specific population distribution for males, by county, during the time interval between 1980 to 1983	. 50
6c	Age-specific population distribution for females, by county, during the time interval between 1980 to 1983	. 51
7	Deaths of residents by township Nevada: 1968-1983	. 52
\$a	Frequency and percentage distributions for cause-specific deaths for both sexes in Nevada during the time interval between 1968 to 1969	. 53
8b	Frequency and percentage distributions for cause-specific deaths for both sexes in Nevada during the time interval between 1970 to 1974	. 53

<u>Table</u>		Page	e
8c	Frequency and percentage distributions for cause-specific deaths for both sexes in Nevada during the time interval between 1975 to 1979	. 54	
8d	Frequency and percentage distributions for cause-specific deaths for both sexes in Nevada during the time interval between 1980 to 1983	• 54	
8e	Frequency and percentage distributions for cause-specific deaths for males in Nevada during the time interval between 1968 to 1969	. 55	
8 f	Frequency and percentage distributions for cause-specific deaths for males in Nevada during the time interval between 1970 to 1974	. 55	
8g	Frequency and percentage distributions for cause-specific deaths for males in Nevada during the time interval between 1975 to 1979	. 56	
8h	Frequency and percentage distributions for cause-specific deaths for males in Nevada during the time interval between 1980 to 1983	. 56	
8i	Frequency and percentage distributions for cause-specific deaths for females in Nevada during the time interval between 1968 to 1969	. 57	
8j	Frequency and percentage distributions for cause-specific deaths for females in Nevada during the time interval between 1970 to 1974	. 57	
8k	Frequency and percentage distributions for cause-specific deaths for females in Nevada during the time interval between 1975 to 1979	. 58	,
81	Frequency and percentage distributions for cause-specific deaths for females in Nevada during the time interval between 1980 to 1983	. 58	}
9a	Final version of frequency and percentage distributions for cause-specific deaths for both sexes in Nevada during the time interval between 1968 to 1969	. 59)
9b	Final version of frequency and percentage distributions for cause-specific deaths for both sexes in Nevada during the time interval between 1970 to 1974	. 59	
9c	Final version of frequency and percentage distributions for cause-specific deaths for both sexes in Nevada during the time interval between 1975 to 1979	. 59	
9d	Final version of frequency and percentage distributions for cause-specific deaths for both sexes in Nevada during the time interval between 1980 to 1983	. 60	

<u>Table</u>		Page
9e	Final version of frequency and percentage distributions for cause-specific deaths for males in Nevada during the time interval between 1968 to 1969	. 60
9f	Final version of frequency and percentage distributions for cause-specific deaths for males in Nevada during the time interval between 1970 to 1974	. 60
9g	Final version of frequency and percentage distributions for cause-specific deaths for males in Nevada during the time interval between 1975 to 1979	. 61
9h	Final version of frequency and percentage distributions for cause-specific deaths for males in Nevada during the time interval between 1980 to 1983	. 61
9i	Final version of frequency and percentage distributions for cause-specific deaths for females in Nevada during the time interval between 1968 to 1969	. 61
9j	Final version of frequency and percentage distributions for cause-specific deaths for females in Nevada during the time interval between 1970 to 1974	. 62
9k	Final version of frequency and percentage distributions for cause-specific deaths for females in Nevada during the time interval between 1975 to 1979	. 62
91	Final version of frequency and percentage distributions for cause-specific deaths for females in Nevada during the time interval between 1980 to 1983	. 62
10a	Frequency and percentage distributions for age-specific deaths for both sexes in Nevada during the time interval between 1968 to 1969	. 63
10b	Frequency and percentage distributions for age-specific deaths for both sexes in Nevada during the time interval between 1970 to 1974	. 63
10c	Frequency and percentage distributions for age-specific deaths for both sexes in Nevada during the time interval between 1975 to 1979	. 63
10d	Frequency and percentage distributions for age-specific deaths for both sexes in Nevada during the time interval between 1980 to 1983	. 64
10e	Frequency and percentage distributions for age-specific deaths for males in Nevada during the time interval between 1968 to 1969	. 64
lOf	Frequency and percentage distributions for age-specific deaths for males in Nevada during the time interval between 1970 to 1974	. 64

<u>Table</u>		Page
10g	Frequency and percentage distributions for age-specific deaths for males in Nevada during the time interval between 1975 to 1979	. 65
10h	Frequency and percentage distributions for age-specific deaths for males in Nevada during the time interval between 1980 to 1983	. 65
10i	Frequency and percentage distributions for age-specific deaths for females in Nevada during the time interval between 1968 to 1969	. 65
10j	Frequency and percentage distributions for age-specific deaths for females in Nevada during the time interval between 1970 to 1974	. 66
10k	Frequency and percentage distributions for age-specific deaths for females in Nevada during the time interval between 1975 to 1979	. 66
101	Frequency and percentage distributions for age-specific deaths for females in Nevada during the time interval between 1980 to 1983	. 66
lla	Frequency and percentage distributions for race-specific deaths for both sexes in Nevada during the time interval between 1968 to 1969	. 67
116	Frequency and percentage distributions for race-specific deaths for both sexes in Nevada during the time interval between 1970 to 1974	. 67
Hc	Frequency and percentage distributions for race-specific deaths for both sexes in Nevada during the time interval between 1975 to 1979	. 67
11d	Frequency and percentage distributions for race-specific deaths for both sexes in Nevada during the time interval between 1980 to 1983	. 68
11e	Frequency and percentage distributions for race-specific deaths for males in Nevada during the time interval between 1968 to 1969	• 6 8
11f	Frequency and percentage distributions for race-specific deaths for males in Nevada during the time interval between 1970 to 1974	. 68
llg	Frequency and percentage distributions for race-specific deaths for males in Nevada during the time interval between 1975 to 1979	. 69
11h	Frequency and percentage distributions for race-specific deaths for males in Nevada during the time interval between 1980 to 1983	. 69

Table		Page
11i	Frequency and percentage distributions for race-specific deaths for females in Nevada during the time interval between 1968 to 1969	. 69
11j	Frequency and percentage distributions for race-specific deaths for females in Nevada during the time interval between 1970 to 1974	. 70
11k	Frequency and percentage distributions for race-specific deaths for females in Nevada during the time interval between 1975 to 1979	. 70
111	Frequency and percentage distributions for race-specific deaths for females in Nevada during the time interval between 1980 to 1983	. 70
12	Sound Level Exposure Per Township - Average between 1968-1983	. 71
13	Crude Death Rate of Residents by Township Nevada	. 72
14	Crude Death Rate of Nevada Residents by County Nevada: 1968-1983	. 73
15a	Cause-specific, but not age-adjusted, death rates per 100,000 for both sexes by county during the time interval between 1980 to 1983	. 74
15b	Cause-specific, but not age-adjusted, death rates per 100,000 for males by county during the time interval between 1980 to 1983	. 75
15c	Cause-specific, but not age-adjusted, death rates per 100,000 for females by county during the time interval between 1980 to 1983	. 76
16	Comparison Between Death Rates by Risk Area Nevada: 1968-1983	. 77
17	Age-Adjusted Death Rate of All Causes in Nevada Residents	. 78
18	Age-Adjusted Death Rates	. 79
19	Mean yearly day-night average C-weighted sound level (in decibels) over the designated time periods between 1968-1983	. 84
20	Age-adjusted death rates due to all diseases (per thousand per year) and the corresponding CLDN values (in decibels) over the designated time periods between 1968-1983	. 85
21	Age-adjusted death rates due to cardiovascular diseases (per thousand per year) and the corresponding CLDN values (in decibels) over the designated time periods	
	between 1968-1983	. 86

			<u>Page</u>
Age-adjusted death rates due to hypertension (per thousand per year) and the corresponding CLDN values (in decibels) over the designated time periods between 1968-1983			. 87
Age-adjusted death rates due to cancer (per thousand per year) and the corresponding CLDN values (in decibels) over the designated time periods between 1968-1983		•	. 88
Age-adjusted death rates due to cardiovascular accident (per thousand per year) and the corresponding CLDN values (in decibels) over the designated time periods between 1968-1983	•		. 89
Age-adjusted death rates due to other diseases (per thousand per year) and the corresponding CLDN values (in decibels) over the designated time periods between 1968-1983	•		. 90
Correlation Between Crude Death Rate and Sonic Boom Exposure			. 91
Association Between Age-Adjusted Death Rates and Sonic Boom Exposure - Nevada: 1969-1983			92
Association Between Age-Adjusted Death Rates and Sonic Boom Exposure in High Risk Area - Nevada: 1969-1983			. 94
Association Between Age-Adjusted Death Rate and Sonic Boom Exposure in Medium Risk Area - Nevada: 1968-1983 .			96
Association Between Age-Adjusted Death Rates and Sonic Boom Exposure in Low Risk Area - Nevada: 1969-1983			97
Percentages of Morbidity Among Hospital Discharge Diagnosis in Nevada by Percent of Discharge Diagnosis			99
Association Between Hospital Diagnoses and Sonic Boom Exposure			100
	per year) and the corresponding CLDN values (in decibels) over the designated time periods between 1968-1983 Age-adjusted death rates due to cancer (per thousand per year) and the corresponding CLDN values (in decibels) over the designated time periods between 1968-1983 Age-adjusted death rates due to cardiovascular accident (per thousand per year) and the corresponding CLDN values (in decibels) over the designated time periods between 1968-1983	per year) and the corresponding CLDN values (in decibels) over the designated time periods between 1968-1983	per year) and the corresponding CLDN values (in decibels) over the designated time periods between 1968-1983

1.0 INTRODUCTION

Because of continued concern on the part of the scientific community and the general public that repetitive exposure to sonic boom may lead to chronic physiological abnormality, ¹, ² a major effort has been made to identify an excess of abnormalities in a population exposed to frequent sonic booms. To do this, traditional epidemiological methods have been employed. This volume reports the results of this epidemiological study carried out for residents of the State of Nevada. The companion volume reports the evaluation of the sonic boom environment in the study area.

Experiments on the causal relationships between discrete loud noises and health status have been performed, mostly using animal subjects. The set of outcomes points to the potential of cardiovascular and behavioral/affective measures in evaluating the impact of sonic booms on humans. In addition, some of these studies suggest that immune-system status and birth defects and/or developmental disorders will be of interest as a function of exposure to sonic booms.

Epidemiological studies and some experiments have assessed relationships between chronic exposure to loud, workplace noise and a variety of health measures. 3, 4 Generally, the health measures employed can be cast into two groups: indications of cardiovascular disease, and indications of behavioral or affective change. The quality of these works varies appreciably. However, there is some convergence of results to the effect that blood pressure is very likely responsive to chronic, loud noise. Components of the electrocardiogram may also be responsive to chronic, loud noise (but often in ways that are clinically ambiguous.)5, 6

While sonic booms are not continuous in character, there is some indication that discrete, loud noise is functionally equivalent to continuous, loud noise in terms of health consequences.⁷

Independent of any findings regarding sonic booms and hearing loss, there are many unresolved questions regarding sonic boom exposure and nonauditory health effects. A large body of research attempts to document relations between chronic exposure to loud, continuous noise and health status.^{8, 9} These studies

Wyle Research Report WR 86-1, "Study of the Effects of Exposure to Sonic Booms on Human Health — Volume I, Sonic Boom Environment," March 1986.

demonstrate clearly that man responds to noise with a variety of transient physiological changes. However, there is no reliable evidence in man that these transient changes become fixed or lead to disease.

The Overall Approach

The primary intent of the study was to develop a methodology to enable us to uncover a possible link of increased frequency of health effects (particularly cardiovascular) with residency in the areas with high sonic boom exposure over the last 16 years compared with low exposure areas. The data utilized to test this association was generated from health and demographic records from health departments, hospital and clinical records, as well as the Bureau of Vital Statistics (see Section 2.0).

The concept underlying our study was to search as diligently as possible within program resource constraints for measurable diseases in the test population which are most likely to result from sonic boom exposure.

The Study Area

The State of Nevada was selected for this study since the sonic boom exposure in this State, especially within the Tactical Fighter Weapons Center (TFWC) Range Complex near Nellis Air Force Base, was believed to be greater than for any other inhabited area in the United States. Nevada had a population of about 920,000 people in 1983; 82 percent were concentrated in Clark (Las Vegas) County and Washoe (Reno) County with most of the remainder spread out over small town, or rural, sparsely-populated areas. The TFWC Range Complex in the southern part of the State lies primarily within Nye and Lincoln Counties which had a total population of approximately 20,000 in 1983. The median age of all residents in Nevada in 1983 was about 30 years and, in Nye and Lincoln Counties, about 31.

2.0 METHOD

The basic data analysis process involved the development of age-corrected mortality and morbidity (disease) data by geographic area (townships and counties within Nevada) for a time period coincident with, or greater than, the time period (1969-1983) for which sonic boom exposure data were available. These health data for Nevada were first compared to national norms to see if any Nevada-specific patterns emerged and then they were correlated with the sonic boom exposure data to probe for any cause-effect relationships.

2.1 Data Collection

Computer tapes were purchased from the Nevada State Health Department, including data on ambulance run reports, abortion, deaths, divorces, births, Women-Infant-and-Children (WIC) Nutrition Clients, and Census tapes (Appendix I, Tables I and 2). All of these tapes were nonlabeled and written in ASCII. In order to detect possible defects in the tapes, each of these tapes was tested by copying small portions of each file to the Digital Equipment Co. (VAX) computer facility at UCI and examining the content.

The population tape (DB1373 CHOO) was received with an explanation of file contents. A data key was constructed which denoted the variables, their positions, and code was constructed (Appendix 1, Table 3). The information provided in this file included year, county, sex/race, age group, and population within that age group.

The file layouts (Appendix 1, Tables 4 and 5), computer printouts (Appendix 1, Tables 6 and 7) of master copies, the keypunch instructions, and the codes were documented for both the birth and death files. In both the birth and death files, confidential information (i.e., name, social security number, address) was not released by the Nevada State Health Department. Code books which show the variables provided on these tapes are in Appendix 1, Tables 8 and 9.

Birth, Death, and Population files were loaded onto the VAX at UCI. The Population tape consisted of two files: The first file contained data records for the years 1964 to 1983 based upon the 1980 Census; the record file contained data records for the years 1964 to 1980 based upon the 1970 Census. The final population file retained in both computer systems contains annual information from 1964 to 1983. The data of 1964 to 1975 were estimates from the 1970 Census and

the data of 1976 to 1983 were estimates from the 1980 Census. (The final analyses utilized only data from 1968 to 1983).

Other sources of population data were Bureau of Census publications, including Number of Inhabitants, ¹⁰ Vital Statistics of the U.S., ^{11, 12}, Age-Adjusted Death Rates for Selected Causes by Color and Sex, ¹³⁻¹⁶ Estimates of the Population of Counties and Metropolitan Areas, ¹⁷⁻³⁷ Provisional Estimates of the Population of Counties, ³⁸⁻⁴³ and Estimates of the Population by States. ⁴⁴⁻⁵⁰

2.2 Editing of Data Using SAS

The data on the tapes of population files and death files were edited using the Statistical Analysis System (SAS) software package on an IBM mainframe 3081 running MVS. SAS is a software package for manipulation and analysis of data. All the tasks were executed by IBM utility or other packaged software under the System Productivity Facility (SPF) or Time Sharing Option (TSO).

The original Population files obtained from Nevada were based on two different Census (1970 and 1980) and had been written on the same tape without a tape label. This created a problem in working on the file. Another problem was that the original record length was 300 bytes which exceeded the maximum limit (256 bytes) that could be freely moved around on the monitor screen. In order to overcome these problems, the raw disk file was rewritten into two short disk files. The first short file contained year, county, sex, race, and numbers of population up to 16 years old; the second short file contained information of year, county, sex, race, and numbers of population from 17 to 85 years old. During the process of creating these two files, the data lines which denoted the information on unknown county/rural areas were dropped; however, the figures on total population were retained from the original source.

The undesired data lines in both shortened population files were then manually deleted through full-screen editing. As both data sets were cleaned, these two files were merged into a partitioned SAS data set by year, county, sex, and race. During the procedures, and before the merge step actually took place, race code was changes to be consistent with both birth and death files. The contents of the revised population files are included in Appendix 1, Table 10.

The editing process for the death file involved screening the data set in a univariate and bivariate manner (Appendix 1, Tables 11 and 12) and changing codes

to obtain consistency across files. The contents of the cleaned death file stored on the disk is shown in Appendix 1, Table 13.

2.3 Variables Used for Data Analyses

Before the variables were selected for final data analysis, some test runs were performed on the death file. These tests were bivariate tabulations done by year of death for each sex and for both sexes together. This information included: (1) race versus birthplace, (2) age versus birthplace, (3) race versus sex, (4) age versus sex, (5) race versus county of occurrence, and (6) age versus county of occurrence. After these computer runs, it was decided that place of residence would be used for the geographic distribution variable rather than place of occurrence. The variables selected for further analysis were as follows:

- 1. In the population file, year, county, sex, race, and population by age groups.
- 2. In the death file, age, International Codes of Disease (ICD), ⁶¹ disease group, residence county, residence town, race, sex, township, and year. The disease group variable was created from ICD Codes (considering the appropriate ICD edition) (Appendix 2, Table 1), and township was created by pooling across the towns (Appendix 2, Table 2).
- 3. In the environmental data file, the variables used were type of aircraft, year, township, county, number of events, average peak pressure, average sonic boom carpet area, and the yearly day-night average C-weighted sound level. The reader is referred to Volume I of this report for a complete discussion of the environment data. Briefly, number of events may be thought of as number of sonic booms, and the yearly day-night C-weighted average sound level is the energy produced by sonic booms apportioned over a 24-hour period and then averaged, on an energy basis, over the year and expressed in log units.

2.4 Integration and Reduction of Data

In order to facilitate data processing and improve efficiency in computer use, the edited master SAS data sets for death and population (Appendix 1, Tables 10 and 13) were retrieved from the system. New variables were added, unwanted variables were dropped, block sizes were readjusted according to the new record lengths and, finally, smaller SAS data sets were created for practical use after these preliminary preparations.

2.4.1 Denominator Data

Denominator data refers to the population at risk to develop disease and is required to convert absolute disease rates into normalized values per capita. The original population file including the raw data and the cleaned file retained 36 age categories. A new data set which contained 13 age categories (Appendix 2, Table 3) was created from the old data set. The newly created file was used as an input to create smaller data sets (Appendix 2, Table 4) specific by sex and race. Subsequently, members of the data set which contained only 1 year's information were created. These smaller data sets with only eight variables (described in Appendix 2, Table 4) were written back to the system in a new, partitioned data set. Summations of population by intervals of time 1968-1969, 1970-1974, 1975-1979, 1980-1983) were executed. The inputs to the summation procedures were the yearly SAS data sets; the outputs of the summations were written to a new data set partitioned on the four time intervals.

2.4.2 Mortality Data

The edited data described in Appendix 1, Table 13 was used as an input file to create new variables for a condensed data file. This condensed file contained age, ICD, county of residence, town of residence, race, sex, year, and township. Township is the minor civil division obtained in Nevada, several townships typically making up a county. The township variable was created according to the coding scheme described in Appendix 2, Table 2. Again, this newly created condensed file was used as an input to create a file containing the variable disease category according to the ICD codes (considering the appropriate edition of ICD) (Appendix 2, Table 1). After the procedures for denominator data, described above, four more data sets which reflected time periods of 1964-1969, 1970-1974, 1975-1979, and 1980-1983 were created. Later, two more data sets were created for the periods of 1964-1967 and 1968-1969 from the set of 1964-1969. However, sonic boom exposure estimates were not available for the 1964 to 1967 time period.

2.4.3 Environmental Data

The sonic boom environmental data, provided by Wyle Laboratories on ASCII files, were transferred to the VAX via an IBM PC XT using a communications package. A sample listing of the exposure data are contained in Appendix 3, Table 1. See Volume I of this report for a full listing.

2.5 Population Distribution and Data Generation

For each county, the annual population from 1964 to 1983 was extracted from the file. Separate sets of tables were prepared showing population for both sexes, for males only, and for females only. Table I shows racial distribution by county. Table 2 shows the population by age groups for each county. Table 3 shows age-specific population but with broader intervals. County population by sex is apparent in the total column of any of the table sets mentioned above.

Figures on annual township population are not available. Therefore, estimates of annual township populations were produced from annual county populations under the assumption that, within the township, the trend and magnitude of population growth were proportional to changes at the county level from year to year. Estimates of populations in townships were available for Census years only (e.g., 1960, 1970, 1980) in the Census Bureau's Number of Inhabitants. Township populations for the intervening years were estimated by apportioning changes in the township figures from Census to Census according to proportion change observed among the annual county figures. Only total township populations were estimated. The method was judged too fragile to produce population breakdowns by age, race, sex, etc. This limitation in denominator data at the township level imposes restrictions on the resulting health effects measures at that level. Table 4 shows estimated annual population by township.

Population figures at the county level permitted the construction of age-specific, race-specific, sex-specific, and cause-specific mortality rates. As mentioned above, denominator (population) and numerator (death) data were pooled across time into four time intervals before mortality rates were computed (i.e., 1968-1969, 1970-1974, 1975-1979, and 1980-1983). Tables 5 and 6 represent race-specific and age-specific population for the above time intervals. The age-specific population for the same time intervals, by sex and by county, but with different age categories, was generated on the VAX with a dedicated FORTRAN program. This revised VAX version of age-specific population data was then used as a denominator in computing age-adjusted death rates.

2.6 Mortality Distribution Data Generation

A series of two-way tables which show the number of deaths in each township by year of death for each county of residents was generated through frequency procedures. The marginals give annual county totals and grand county

totals over the entire period. The number of deaths for each township was the sum of deaths of residents belonging to appropriate towns plus a proportion of deaths which were originally designated with a rural/unknown town code within county. The proportion of township population to county population for the appropriate time was used to allocate deaths with a rural/unknown code such that death proportion could not exceed population proportion. The resulting matrix of annual deaths by township is shown in Table 7. Since both numerator and denominator data at the township level were the result of assumptions impossible to verify, no more than crude mortality rates were developed.

The number of deaths by county, time interval, and sex (both male and female) is shown in Table 8 which gives the breakdown by cause of death. Table 9 gives the breakdown by disease group. Table 10 gives the breakdown by age at death, while Table 11 gives the breakdown by race. The death counts shown in these tables were saved in matrix form on computer and were used later in computation of age-specific mortality rates.

Because there was a dramatic change of the ICD coding scheme from revision 7 to 8, it was very difficult and, in some cases, impossible to recode ICD 7 categories into categories compatible with ICD 8 and ICD 9. Initially, causespecific death was classified into 37 diseases (Table 8) which were subsequently pooled into 12 categories (Table 9). The 12 categories of cause of death were further reduced to five: cardiovascular disease, hypertension, cerebrovascular accident, cancer, and others. The first three listed were always the focus of the study. Cancer was used as an internal control and because of the presence in Nevada of certain potentially carcinogenic activities (i.e., mining) that make Nevada of general epidmiologic interest. Of these five disease categories, cardiovascular disease contained cases of ICD 8 codes of 390-398, 402, 404, 410-429, 440, 441-448, 399, 405-409, 439 and ICD 9 codes of 390-398, 402, 404-429, 440, 441-448, 399, 400, and 439; hypertension included cases of ICD 8 codes of 400, 401, 403, and ICD 9 codes of 140-208; cerebrovascular accidents were cases with codes of 430-438 in both ICD 8 and ICD 9. The number of deaths by these five groups were used as numerator for age-adjustment of cause-specific death rates.

The deaths of each county were pooled for time intervals of 1968-1969, 1970-1974, 1975-1979, and 1980-1983.

2.7 Generation of Environmental Data Distribution

Three versions of environmental data were received from Wyle Laboratories. All were presented in the same file format containing nine variables with a record length of 47 bytes. The first one was a preliminary data set, chiefly useful as a test of the data transfer process. The second version received in November 1985 was the data set that had been loaded on the VAX as the quantitation of the environmental sonic boom exposure in Nevada. A sample of these data is shown in Appendix 3. A final revision of the noise exposure data was received in January 1986, but the differences between the January and November versions of the data were quite minor (changes of less than 5 percent). This report is based on analyses using the November 1985 version of sonic boom exposure data. These data provided four different but partially correlated measures of sonic boom exposure: yearly day-night average C-weighted sound level, peak pressure, number of (sonic boom) events, and average carpet width.

2.8 Merging of Data Sets

The matrices of death and population data were derived from different file sources as described above, stored through a SAS procedure, and retrieved from the system via job control language. Appropriate numerators and denominators were selected through matching their existing common variables before the death rates were calculated.

The mergings of environmental data with the age-adjusted death rates, and the hospital data on the VAX, were accomplished through FORTRAN programs. The fields of year and township/county from each file were programmatically compared and matched before data lines from the sources were written out with one common identification. The nomenclature of the resulting computer file is shown in Appendix 4, Table 1.

2.9 Statistical Methods

The software which was used to generate this report included BMDP, SAS, FORTRAN, and LOTUS 1-2-3.

The BMPD⁵¹ programs which were used to analyze data included:

P1D Simple Data Description and Data Management

P2D Detailed Data Description, Including Frequencies

P3D Comparison of two groups with t-test

P6D Bivariate (scatter) plots

P7D Description of groups with Histograms and Analysis of Variance

P9D Multiway Description of Groups

P4F Two-Way Frequency Tables

P1M Cluster Analysis of Variables

P1R Multiple Linear Regression

P2R Stepwise Regression

P3R Nonparametric Statistics

P1T Bivariate Spectral Analysis

P1V One-Way Analysis of Variance and Covariance.

The SAS^{52, 53} program which was used for file management and data analysis entailed several data processing steps as well as SAS procedures.

Various FORTAN⁵⁴ utility programs were used on the VAX to read and write files, to perform mathematical computation before collapsing morbidity categories, to create new variables which reflected the percentages among the diagnoses, to pool the environmental data from townships into counties, to collapse the environmental data from annual to multiyear time periods, to calculate the cause-specific death rates as well as their age-adjustment, to perform horizontal linking between environmental data and morbidity by township per year, and cause-specific death rates by county per time period.

Lotus 1-2-3⁵⁵ and the application of the functions available in this spreadsheet included generating tables, computation of means, standard deviation and percentages, sorting and ranking of designated fields, extracting data and combining files, and age-adjustment of death rates.

2.10 Statistical Tests

The statistical tests used in this study included two-sample t-test, ⁵⁶ analysis of variance, ⁵⁷ simple linear regression, ⁵⁸ multiple linear regression, ⁵⁸ stepwise regression, ⁵⁸ and Friedman two-way analysis of variance. ⁵⁹

The cause-specific death ranges for cardiovascular disease, hypertension, cancer, cerebrovascular accident, and other causes for each county for each time period were all age-adjusted through the direct method. For each cause, the death rates of each age stratum within each county, by sex, were calculated

beforehand. Data representing the entire United States for 1968 were used for the age-adjustment.

2.11 Denominator Data Used to Calculate Rates

The population classified by age, sex, and race for the counties and the total population for each township were presented in Section 2.6.

2.12 Calculations on Environmental Data (CLDN)

In order to have an index for ranking the magnitude of sonic boom exposure for each township, as presented in Table 12, the average sound level for each township across the period of 1969 to 1983 was calculated by taking the sum of CLDN values across years and dividing by 15. Of these 58 townships, those with an average CLDN in the upper one-third (CLDN greater than 36 dB) were classified as the high-risk area; those with their average sound levels ranked in the lower one-third (CLDN less than 31 dB) were classified as the low-risk area; the remaining one-third were classified as the medium-risk area. The fluctuation in magnitude of sound exposure of certain townships in certain years was ignored. Figure 1 shows these areas on a map of Nevada. (Note: The word "risk" here is used here solely for convenience and is not intended to imply that proof already exists of a health effect from sonic boom exposure.)

The environmental data at the county level were estimated from the data for townships with a weighting factor. Two methods were explored to create the weighting factor: weighting by event (sonic boom), or weighting by population. The data for each time period were obtained as a weighted average of the annual figures for the constituent years. Therefore, by two different weighting methods, two sets of county data were derived. It was observed that the measures of peak pressure, carpet area, and CLDN generated through these two methods were very similar for each county. The analyses of countywide figures were performed using the exposure data for townships weighted by event (Table 12). For analytic purposes, sonic boom exposure in 1968, which was unavailable, was assumed to be equal to sonic boom exposure in 1969.

2.13 Hospital Discharge Diagnoses

All 33 licensed hospitals in Nevada were asked to participate in the study by providing access to their medical records, specifically their annual discharge

diagnoses summaries. Twenty hospitals agreed to participate (60.6 percent) and 13 hospitals declined to participate. Of the 13 hospitals that declined to participate, 10 were in a high-risk area, two were in an area of medium risk, and one was in a low-risk area. The 20 participating hospitals were distributed across risk factors as follows: 14 were in high-risk areas, five were in areas of medium risk, and one was in a low-risk area. Las Vegas and Reno Townships each contained four participating hospitals, with the remaining participating hospitals distributing one per township.

The discharge diagnoses available at each participating hospital were collected by a field abstractor. The data sought covered the years 1969 through 1985, but the data actually available (within the time and money resources of the study) had gaps in annual information which varied from hospital to hospital. Data were gathered by the five major disease categories used for the mortality analyses (i.e., cardiovascular, hypertension, cerebrovascular accident, cancer, and other causes). Within a township, all data available for a given year were pooled across hospitals. These counts pooled across hospitals for each disease category were converted to percentages of the total discharges in hand for that township in that year. The annual percentage data for each disease category in each township were the basis of analyses.

2.14 Survey to Arcata Personnel

Three corporations serving the Department of Energy field activity within portions of the Tactical Fighter Weapons Center Range Complex, Nellis AFB (i.e., Arcata Associates, Reynolds Electric Company, and Ford Aerospace) were requested to participate in this study through permitting a survey of their employees and the abstracting of their employee medical records. After several attempts had been made to secure the cooperation of each company, only Arcata permitted the survey of its employees, but denied access to medical records. The remaining corporations did not participate in the study.

The survey of Arcata employees was done via questionnaire. The questionnaire solicited information on demographics, the medical history of the employee and his/her immediate family, employee's history of exposure to toxic substances through vocations and avocations, residential history, and history of range assignments where appropriate. One-hundred-and-twenty packages consisting of a cover letter, a questionnaire, a stamped and preaddressed envelope for the return of the

questionnaire, and a stamped unaddressed envelope for mailing the materials to employees were delivered to Arcata Associates. The corporation, as a condition of cooperation, was responsible for mailing the materials to employees. Of the 120 packages distributed, 29 were eventually received by the study, making for a response rate of 24.2 percent.

3.0 RESULTS

3.1 Crude Death Rates

Table 13 shows annual crude death rates per thousand based on all causes of death, by township. Table 14 shows similar figures but by county. Note from either table that crude death rates in Nevada are consistently lower than national figures. These rates were computed using the data shown in Table 4 (population) and Table 7 (deaths).

Table 15 shows crude death rates per hundred thousand by specific causes at the county level, broken down by sex (both male and female) and time interval. The specific causes listed in Table 15 are cancer, respiratory tract, heart disease, hypertension (irrespective of renal disease), cerebral vascular accident, atherosclerosis, other diseases of vessels (arteries, arterioles, and capillaries), other cardiovascular disease (CV-DIS), stress/emotional problems, reproductive system, congenital malformations (malform), and other diagnoses.

Table 16 compares mortality among the three geographic areas of relative sonic boom exposure described earlier in Section 2.12. The upper panel compares crude mortality calculated from township data. Each mean is based on annual data from the appropriate townships. The probability values associated with each mean imply significant variation within the observations contributing to each mean. However, the probability value in the fourth column from the right shows that a one-way analysis of variance performed on the three risk area means was significant. Mean crude death rate increases as the "risk" level of sonic boom exposure increases. Pairwise t-tests were performed and indicate that each mean crude death rate is statistically different from the remaining two. The probabilities associated with these t-tests are given in the three right-most columns. Although the t-tests performed were not adjusted to reflect their post hoc nature, the probabilities are sufficiently small to support assertions of statistical difference.

The lower panel of Table 16 compares age-adjusted, cause, and sex-specific mortality among the three risk areas. Information is presented in the same format as for the upper panel. The bottom-most row presents age-adjusted mortality pooled across cause and sex. In contrast to the findings on crude death rate, there was no indication that overall mean age-adjusted mortality varied significantly

across risk areas. There was a significant main effect of risk area on the data for females only but the pattern of means suggests that the lowest age-adjusted mortality was found in the areas of medium risk. Indeed, the only age-adjusted data found to repeat the pattern of the crude death rates was in deaths due to cerebrovascular accident for both men and women. No other pattern of cause or cause- and sex-specific means showed a significant monotonic increase with this measure of sonic boom exposure.

3.2 Age-Adjusted Mortality Rates by County

Table 17 presents age-adjusted mortality from all causes broken down by time interval, sex, and county within risk area. Note that, with the exception of males in 1968-1969, state total age-adjusted mortality exceeds the national figures, sometimes by a substantial amount. This contrasts with the observation based on crude rates presented above. Note further that generally the mean age-adjusted mortality for the medium-risk area exceeds that of the remaining risk areas.

Table 18 presents data on age-adjusted, cause-specific mortality broken down by time interval, sex, and county within risk area. Each panel of Table 18 presents data from a different cause of death. For cardiovascular mortality (panel I), it may be seen that State total figures were consistently lower than national figures prior to 1975, but from 1975 onward the State figures consistently exceed the national figures. Inspection of the risk area means reveals no consistent relation between age-adjusted mortality and exposure. For death due to hypertension (panel 2), no consistent structure is observed when State total figures are compared to national figures, nor when risk area means are compared across For cancer mortality (panel 3), the Nevada State total rates are consistently higher than the national figures. However, no consistent relation is observed between risk area means and noise exposure. For deaths due to cerebrovascular accident (panel 4), the State total figures are consistently less than the national figures until 1970, but from 1970 onward, the State total rates exceed the national rates. Inspection of the risk area means reveals no consistent relation between cerebral-vascular accident mortality and exposure to sonic boom. For deaths due to other causes (panel 5), no national figures were available. Inspection of the risk area means again reveals no consistent relation between exposure to sonic boom and mortality.

3.3 Time Trends Using Mortality Data

Friedman two-way analyses on ranks was used to evaluate time trends of both sound level from sonic booms and age-adjusted mortality from various causes. Table 19 presents mean annual day-night average C-weighted sound level by county and time interval. As may be seen, the rank sums of CLDN increase significantly over time periods, implying generally that sonic boom exposure was increasing as time progressed. Since the sonic boom exposure model developed in Volume I assumed a constant sound level for any one aircraft type, altitude, and Mach number, this increase in CLDN is most likely due to an increase in average number of events per year.

Tables 20 through 25 present age-adjusted mortality from various causes in a similar format. The Friedman analyses show a decline in age-adjusted mortality from all causes over time (Table 20), haphazard changes in age-adjusted cardio-vascular mortality over time (Table 21), no significant change in age-adjusted mortality due to hypertension over time (Table 22), an increase in age-adjusted cancer mortality over time (Table 23), haphazard changes in age-adjusted mortality from cardiovascular accidents over time (Table 24), and a decline in age-adjusted mortality from other causes over time (Table 25).

3.4 Correlations Using Mortality Data

Bivariate linear regressions were run as a more sensitive assessment of the relation between sonic boom variables and mortality rates than is yielded by parametric tests of mean differences or nonparametric tests of ranks (given underlying linear relations). At the township level, the available data were the annual crude death rates for all years of the study. At the county level, age-adjusted, sex- and cause-specific rates were available.

Table 26 presents relationships between township-generated crude death rates and measures of sonic boom noise. For sonic boom exposure, the table distinguishes fighter planes from SR-71 operations as well as pooling these two sources together. Exposure variables were number of events (number of booms), average peak pressure, CLDN and carpet width (carpet width is not available for the aircraft pooled together). Data are shown for all townships, and for townships within risk areas. Cell entries in the table are the number of data points used (N), strength of the linear relation between sonic boom noise and crude death rate (r,r^2) , and the probability (p-value) associated with the t-test of the notion that

the linear relationship is truly zero. As may be seen, 25 out of the 44 correlations emerged as significant at the 5 percent confidence level (p<.05). The fact that the four individual measures of sonic boom exposure (i.e., Event, Pressure, Carpet, CLDN) are not independent accounts for some of these significant effects. Further, in all but one case (i.e, fighter events and crude death rate in medium-risk areas), the r² measure of variance accounted for is equal to or less than 0.1. Regression equations and residual mean squares for statistically significant correlations appearing in Table 26 are shown in Appendix 5, Table 1.

Table 27 shows linear relations between county level age-adjusted, cause-and sex-specific death rates and measures of sonic boom exposure within aircraft type (all, fighters, SR-71). Of the 165 correlations presented in the table (disregarding the marginal "all causes"), there were 15 found to be statistically significant (p<.05). Again, dependence among the four exposure parameters and dependence between each gender and data pooled across gender accounts for some of the significant results. Eight of the 15 significant correlations involved mean peak pressure. None of the significant correlations involved number of events and only two involved the only other measure of cumulative noise exposure, CLDN (all or SR-71 aircraft, aircraft, female and "other" causes) and in both cases, the r² value was less than 0.1 and the correlation coefficient was negative.

As may be seen in the table, mean peak pressure from SR-71 operations was inversely related to age-adjusted deaths from "other" causes in both men and women, and thus also in both sexes pooled together. (Throughout this discussion of the data relationships, the potential "cause" variable - sonic boom exposure - is identified first before the potential health "effects" variable.) By inspection, the SR-71 data are responsible for the emergence of the same pattern when data from fighters and SR-71s are pooled together. In contrast, mean peak pressure from fighter operations was directly related to age-adjusted mortality due to cerebrovascular accident in women and, therefore, in both sexes pooled together. However, these direct relationships vanished when data from both aircraft types were pooled.

To finish exposition on Table 27, carpet area from only fighters varied directly with age-adjusted mortality due to cerebrovascular accident in women and in both sexes pooled together. Carpet area from only SR-71 operations varied with age-adjusted mortality due to "other" causes in each sex and therefore in both sexes pooled. (Note: Data on carpet area was unavailable for aircraft types pooled

together.) Finally, sound level from SR-71 operations varied inversely with age-adjusted mortality due to "other" causes in women and this observation, while absent in the fighter plane data, emerged when data from both aircraft types were pooled. Regression equations and residual mean squares for statistically significant correlations appearing in Table 27 are shown in Appendix 5, Table 2.

Table 28 shows information similar to that presented in Table 27, but limited to counties with the high-risk designation. The linear relations between sonic boom exposure parameters within aircraft type and age-adjusted cause- and sex-specific mortality in the high-risk counties are presented in Table 28. Of the 165 correlations presented (ignoring the marginal cases), only 10 achieved statistical significance at the 5 percent level. Again, the caveat about the dependence of the four noise parameters and the gender divisions must be raised, and it will be noted that the sample size becomes appreciably smaller. It is important to note that the pattern of correlations observed between exposure to sonic boom and ageadjusted cause-and sex-specific mortality pooled across risk areas (Table 27) does not emerge when attention is focused upon the high-risk area (Table 28). The highrisk area in isolation demonstrates absolutely no linear relations between sonic boom exposure parameters and deaths due to cerebrovascular accident, SR-71 exposure is not associated with death due to "other" causes, and no associations found in Table 28 at the fighter plane or SR-71 level are strong enough to emerge when the data are pooled across aircraft type. Not seen in the pooled data but present in the high-risk areas, as may be seen in Table 28, are six significant associations (p<.05) between sonic boom exposure and deaths due to cardiovascular conditions, hypertension, and cancer. Events produced by SR-71 activities are inversely related to age-adjusted cardiovascular mortality in males. Carpet area associated with fighter plane activity is inversely related to age-adjusted hypertension mortality in males and in both sexes pooled together. Age-adjusted cancer mortality in males and in both sexes pooled together is shown to be positively associated with events and sound levels produced by SR-71 operations. Finally, Table 28 shows sound level produced by fighter operations is inversely related to age-adjusted mortality due to "other" causes in each and, therefore, both sexes. Regression equations and residual mean squares for statistically significant correlations apparent in Table 28 appear in Appendix 5, Table 3.

Table 29 shows information similar to that presented in Table 27, but limited to counties with the medium-risk designation. The linear relations between

sonic boom noise parameters within aircraft type and age-adjusted cause- and sexspecific mortality in the counties exposed, on average, to a moderate intensity of sonic boom noise, are presented. Note that no fighter plane information is available for the medium-risk area. Of the 105 correlations shown in the table (ignoring the marginal), six were statistically significant. The earlier remarks about sample size and dependence apply here as well. As found for the high-risk area, the medium-risk area in isolation (Table 29) fails to mimic the pattern of findings evident when the data were pooled across risk areas (Table 20), although the lack of fighter plane data for this area makes direct comparison impossible. It is evident that in the medium-risk area, a direct and consistent relation between sound level from both all aircraft and SR-71 operations and age-adjusted mortality due to cerebrovascular accident in males and in both sexes pooled together was found. There is also a direct relation between events from all aircraft and ageadjusted mortality due to hypertension in males. Finally, there was observed a direct relation between sound level produced by SR-71 operations and age-adjusted mortality in women due to cardiovascular conditions. Regression equations and residual mean squares for the significant correlations appearing in Table 29 are given in Appendix 5, Table 4.

Table 30 shows information similar to that presented in Table 27, but limited to counties with the low-risk designation. The linear relations between sonic boom exposure and age-adjusted cause- and sex-specific mortality in the counties exposed, on average, to the lowest intensity of sonic boom exposure are presented. Of the 165 correlations presented (ignoring the marginal), statistical significance was obtained by 28. The earlier remarks about sample size and dependence apply here as well. There is a considerable correspondence between the patterns of data for the low-risk area and the data pooled across risk areas (Table 27). The similarities are: mean peak pressure from SR-71 operations was inversely related to age-adjusted deaths from "other" causes in both men and women and, thus, also in both sexes pooled together. These data from SR-71 operations are responsible for the emergence of the same pattern when data from the two aircraft types are pooled together. Mean peak pressure from fighter operations was directly related to age-adjusted mortality due to cerebrovascular accident in women and, therefore, in both sexes pooled together. Carpet area from SR-71 operations is directly related to age-adjusted mortality for "other" causes in each sex. Therefore, in both sexes, carpet areas from fighters are directly related

to age-adjusted mortality due to cerebrovascular accident in women. The low-risk group of counties did not shown an inverse relation between sound pressure levels from SR-71s or aircraft types pooled and age-adjusted mortality due to "other" causes in women, as appeared in the data set where risk areas were pooled (Table 27).

Considering deaths from cerebrovascular accidents, Table 30 shows that events from SR-71 operations in the "low risk" area were directly related to age-adjusted mortality in women, and that sound level from fighters was related to age-adjusted mortality in each sex. Note that when data were pooled across aircraft type, the relations between sound level from fighters and cerebrovascular death were distilled into a single inverse relation for males only.

Considering cancer deaths, signs on coefficients in the low-risk group contrasted with signs found in the high-risk group (Table 28). In the low-risk group, age-adjusted cancer mortality was inversely related to sound levels from SR-71 operations in each sex and in both sexes. When data were pooled across aircraft type, that relation held only for females, and both sexes pooled together. Note that in the high-risk group, the only other group where cancer mortality was significantly related to sonic boom exposures, the signs on the coefficients relating cancer mortality sound level from SR-71 operations were positive. These relations evidently washed out of the data pooled across risk groups (Table 27).

Considering deaths from hypertension, Table 30 shows that sound level from SR-71 operations was inversely related to age-adjusted mortality in women only. Number of events from fighters was directly related to mortality in males and both sexes pooled together, but number of events from all aircraft pooled together was directly related to each sex. Note that a similar relation was found in the mediumrisk group between males and events from all aircraft, but nothing similar was found in the high-risk group (Table 28) and the relation was close to significant for males with all aircraft and with fighters only in the data pooled across risk groups (Table 27).

Considering cardiovascular mortality, sound level from fighters and from all aircraft pooled together was inversely related to age-adjusted deaths in males only. Regression equations and residual mean squares for significant correlations appearing in Table 30 appear in Appendix 5, Table 5.

3.5 Morbidity Studies

3.5.1 Hospital Discharge Diagnoses

Annual data were contributed by more than nine hospitals for the period from 1979 through 1984. In both Union and Sparks Townships, the only data available were from 1984. All available discharge diagnoses from Reno Township for 1978 and for Nelson Township for 1979 were cancers. Only one township in this data set was in a low-risk area, but five townships were in the medium-risk area, and eight townships were in the high-risk area. Because the sample size in the low-risk area was inappropriately small for statistical analyses, the medium- and low-risk data were pooled together and the result was pitted against the data from the high-risk area for analyses.

Table 31 shows means of cause-specific percentage morbidity in townships within the two risk areas (high, medium-low). A one-way analysis of variance was performed on the cause-specific percentages across townships within each risk area. As may be seen in Table 31, seven of the 10 tests indicated significant variability in cause-specific percentage morbidity among the townships within a risk area. Student's t-test was used to evaluate differences in cause-specific morbidity between the high- and medium-/low-risk areas. As the table shows, a statistically significant difference between means was observed only for cardio-vascular morbidity, such that mean percent cardiovascular morbidity was greater for the high-risk area than for the medium-/low-risk areas (<.05). (Note that the application of analysis of variance here may have masked all differences.)

The mean percentage morbidity of cardiovascular diseases was greater than the mean of any of the remaining categories (p<.05). Following cardiovascular disease, the rank of mean percentage morbidity was, in descending order: cancer, cerebrovascular accident, hypertension (p<.01). This pattern may interact with risk area. In the medium-/low-risk data, there were no differences in the mean percentage morbidity of cardiovascular disease and cerebrovascular accident, nor between the latter and hypertension, as illuminated by paired t-tests (p>.05).

Table 32 shows linear relations between cause-specific percent morbidity derived from hospital discharge diagnoses and measures of sonic boom exposure within aircraft type and risk area. Of the 165 correlations presented in the table, 19 were found to be statistically significant. Dependence among the four exposure parameters accounts for some of the significant results.

The relations shown in Table 32 involving mean peak pressure and morbidity due to "other" causes are strikingly similar to the mortality data presented earlier (see Tables 28 and 30). As may be seen in the table, mean peak pressure from SR-71 operations in the high-risk area is inversely related to morbidity due to "other" causes. The inverse relation also holds for mean peak pressure due to all aircraft in the high-risk area, and for SR-71 and all aircraft when data are pooled across risk areas. In the mortality data pooled across risk areas (Table 27), mean peak pressure from SR-71 operations was inversely related to deaths from "other" causes. When mortality data from high-risk area were examined in isolation (Table 28), their relations were not statistically significant, but it is noteworthy that the signs of the coefficients were negative.

Returning to Table 32, other significant linear relations between morbidity due to "other" causes and exposure parameters were found with number of events due to SR-71 operations in the high-risk area (positive) and carpet area associated with SR-71 operations when data were pooled across risk areas.

For SR-71 operations, statistically significant associations appear between most of the exposure parameters and cancer morbidity, chiefly in the high-risk area. As may be seen in the high-risk panel of Table 32, events from SR-71s are inversely related to cancer morbidity, mean peak pressure from SR-71s is positively related to cancer morbidity, and carpet area from SR-71 operations is negatively related to cancer morbidity. This last relation holds when SR-71 data were pooled across risk areas. There is no significant correlation with CLDN for cancer morbidity.

SR-71 operations are associated with most of the significant relations between noise parameters and morbidity due to hypertension. In the medium-/low-risk panel of Table 32, number of SR-71 events is inversely correlated with hypertension morbidity and this relation holds when data are pooled across aircraft type in the medium-/low-risk area. In the high-risk panel of Table 32, carpet area from each aircraft type (SR-71 and fighters) is positively associated with hypertension morbidity. (Note that carpet area pooled across aircraft type is unavailable.) Also, sound level from fighters is positively related to hypertension, but only in the high-risk areas. The only significant linear relation between exposure parameters and cardiovascular morbidity involved a direct relation with sound level from all aircraft when data were pooled across risk areas. Regression equations

and residual mean squares for significant correlations appearing in Table 32 are given in Appendix 5, Table 6.

3.5.2 Results of the Survey to Arcata Personnel

Twenty-three (79 percent) of the 29 Arcata employees who responded to the questionnaire were male and six (21 percent) of the respondents were female. The distribution of ethnic groups was: 22 whites (76 percent), five blacks (17 percent), and two others (7 percent). Seventeen (59 percent) of them had at least some college education, nine (31 percent) were high school graduates, and three (10 percent) did not disclose their educational levels. The mean age of the respondents was 38 (±12) and ranged from 21 to 66.

The respondents' habits of tobacco and alcohol use and the family and medical histories of respondents are summarized in Appendix 6, Tables 1 and 2 respectively. Less than 21 percent of these employees mentioned family history of either heart disease or hypertension. Twenty-seven (93 percent) of the respondents considered themselves in good health. Twelve (41 percent) of the subjects saw a doctor regularly, but 17 (59 percent) did not. Eight (28 percent) of the subjects followed a special diet. The diet history is presented in Appendix 6, Table 3. The nost prevalent health problem these respondents encountered was allergy. None of the remaining ailments surveyed assaulted more than 14 percent of these employees (Appendix 6, Table 4). Only two had heart disease and two had hypertension. Hazards to which these employees were exposed are given in Appendix 6, Table 5. Thirteen (45 percent) had avocational exposure to loud noise. The average length of exposure was about 15.2 (+16.0) years. Again, the most frequent occupational exposure was to noise, with 20 (69 percent) respondents exposed on average for 10.7 (+8.3) years. The second most frequent exposure listed was to sonic boom, with 19 respondents (66 percent) exposed on average for 8.2 (+7.3) years.

Twenty-one (72 percent) of these 29 Arcata employees provided their judgments of residential exposure to sonic boom commencing 1960. Of the 76 residential locations reported, only 28 (37 percent) were in Nevada, 46 (61 percent) were not in Nevada, and two locations were unknown. By the length of stay, 10 (48 percent) of the people mostly resided outside Nevada, and two (10 percent) did not disclose their location. Counting the length of exposure at various residences, more than 11 (51 percent) of these respondents reported experiencing more than 10

to 100 sonic boom per year; four (19 percent) of these respondents indicated that they usually had no concern. The comparisons of residential exposures to sonic boom, either by personal usual experience or by site of each residence, are summarized in Appendix 6, Table 6.

In this sample of 29, only three subjects suffered from either heart disease or hypertension, and all three subjects were exposed to sonic booms either at work or at their residences. The extremely small number of cases discouraged us from pursuing further statistical analysis.

4.0 DISCUSSION

The basic question that motivated the present effort concerned the existence of a relationship between exposure to sonic booms and adverse health phenomena. The data collected, as presented here, offer no convincing answer to that question in either the affirmative or the negative. However, establishing the data base — that is, bringing together the diverse and various forms of information concerned and linking them together in a fashion suitable for analysis — is, in itself, a worthwhile accomplishment.

Clearly, no pattern in the results presented here implicates sonic booms as a public health hazard to any persuasive degree. No constellation of direct associations was found between the exposure data, as presently cast, and the health measures, as presently constructed. Even the areas of mortality due to cardio-vascular and hypertensive illness, which seemed a priori to have a certain promise, generally failed to be implicated.

Following initiation of the program, it became clear that a retrospective study on a narrowly-defined cohort on whom existed reasonably good data as to exposure and health might be possible. The population in question consisted of civilians who were or had been employed by Department of Energy contractors on some of the restricted portions of the TFWC Range Complex. However, permission to access the vast bulk of that limited population, and the health records of any portion of it, was never granted. Therefore, an efficient and practical search within a unique but limited population for an association between what was believed to be high levels of exposure to sonic booms and health effects was impossible to mount.

The statewide study that was accomplished necessarily relies on estimates, extrapolations, and assumptions to a troublesome degree. The largely rural nature of Nevada encouraged coding of mortality in a way not well-suited to accurate geographic mapping. Deaths given only a rural code were allocated to townships by the study in a manner that seemed plausible, but certainly not verifiable. Potentially, this allocation procedure diluted any observed effect of sonic booms that may exist. Further, township populations could not be partitioned on race, sex, or age. A further complication is that the population at risk is not very large in vast areas of Nevada, which may well impose a floor effect on the data.

These problems with mortality and population-at-risk data at the township level are attenuated by operating at the county level. However, the trade-off is a dilution of precision in the exposure estimates. Most counties in Nevada are vast areas. Supersonic activities that may have been concentrated in one portion of a county, or even of a township, are necessarily but implausibly applied to the county as a whole. The result is a dilution of observed effects that may exist in terms of human health and exposure to sonic booms.

What explicitly may <u>not</u> be inferred from the present lack of findings is that there are no findings to detect. Still, the inherent limitations in a statewide study cannot be overcome by statistical methods of any sophistication. There is no way to predict what would have emerged from the data on Range workers, where good health records could have been partitioned on potentially high quality senic boom exposure data. Full access to the noise exposure and health records for this group would be required for a future effort to discover any relation between exposure to sonic booms and health of this unique population. Alternatively, a long term prospective study of any residents that can be shown to have a significant exposure to sonic boom could be conducted to eliminate the inherent dilution in accuracy involved in the global data employed for this study. Based on the results of this study, it is expected that only such detailed studies will be able to determine if there are any significant health effects of sonic boom exposure.

5.0 SUMMARY OF FINDINGS

The results presented above may be summarized briefly as follows: Generally speaking, mortality rates in Nevada seem to be consistent with national figures. While the crude mortality rates of the State were consistently lower than that of the nation across 16 years, the differences were insubstantial (Table 12). When mortality rates were age-adjusted, the State figures tended to exceed those of the nation but, again, by an insubstantial factor, although the mortality rate among females from 1980 to 1983 may be troubling (Table 17). Breaking the age-adjusted mortality into cause-specific figures does not alter the impression that mortality in Nevada is unremarkable, as depicted by the data presented above.

There were three general attacks on assessing the relation, if any, between exposure to sonic booms and age-adjusted mortality. The first attack was to compare mean mortality between discrete geographic areas seeming to have different degrees of exposure to booms. A preliminary exam of crude mortality rates showed that mean crude mortality increased systematically from low-risk areas to high-risk areas (Table 16). However, this effect vanished when rates were age-adjusted and breaking the adjusted rates into cause-specific categories failed to resurrect it (Table 18).

Time trends were examined in a preliminary fashion to see if changes in exposure would predict changes in age-adjusted mortality. Yearly day-night average C-weighted sound level was chosen as the best, a priori, single parameter of exposure, and was found to be generally on the increase over the time periods examined (Table 19). However, the only age-adjusted, cause-specific mortality rate to show a similar systematic increase was that of cancer. At the present state of knowledge, it is difficult to imagine how to specify a carcinogenic mechanism involving sonic booms.

A third attempt to access associations between sonic boom exposure and nortality was made through bivariate linear regressions. Perhaps the most noteworthy, or memorable, pattern of significant correlations that emerged seemed to involve SR-71 operations and age-adjusted mortality due, usually to so-called "other" causes — that is, causes not explicitly singled out for examination. The associations were <u>inverse</u> relations. Again, it is hard to explain these data with a causal connection linking directly sonic booms from only SR-71 aircraft

with improved community health. The fact that this pattern of correlations seemed stronger in the low-risk areas than in other areas may, eventually, provide a hint as to how this curious phenomenon arose in the data. The same sort of pattern was suggested by the morbidity data due, in part at least, to the dependence between mortality rates and morbidity rates. (Note that, since the patterns relating the mortality data and, for example, SR-71 sonic boom exposure, also emerge in the morbidity data, the assumption that hospital records reflect the morbidity of nearby residents may be bolstered.)

REFERENCES

- 1. Worthington, R.D., "The potential health effects of sonic booms on human populations." In: Department of the Air Force, Tactical Air Command: Revised Draft: Environmental Impact Statement: Supersonic Flight Operations in the Reserve Military Operations Area, Holloman AFB, New Mexico.
- 2. Department of the Air Force, Tactical Air Command:

 <u>Revised Draft: Environmental Impact Statement:</u>

 <u>Supersonic Flight Operations in the Reserve Military</u>

 <u>Operations Area, Holloman AFB, New Mexico.</u>
- 3. Raytheon Service Company. "The Effects of a Company Hearing Conservation Program on Extra-Auditory Disturbances in Workers." U.S. Department of Health, Education, and Welfare; National Institute for Occupational Safety and Health, 1975.
- 4. Graff, Von C., Bockmuhl, F., & Tietze, V. "Noise Strain and Arteric (Essential) Hypertonic Sickness in Humans." In: S. Nitschoff & G. Kriwizkaja (Eds.), Larmbelastung, Akustischer Reiz und Neurovegetative Storingen, Leipzig, 1968.
- 5. Jonsson, A., & Hansson, L. "Prolonged Exposure to a Stressful Stimulus (Noise) as a Cause of Raised Blood Pressure in Man." The Lancet, 1(8002): 86-87, 1977.
- 6. Yazburskis, B.I. "Effect of Ultrasound and Noise on the Cardiovascular System of Operators of Powerful Acoustic Units." Hygiene and Sanitation, 36(3): 105 107, 1971.
- 7. Jansen, G. Non-Auditory Effects of Noise-Physiological and Psychological Reactions in Man." In: Proceedings of the International Congress on Noise as a Public Health Hazard, Dubrovnik, Yugoslavia, 1973.

- 8. Hattis, D., & Richardson, B. "Noise, General Stress Responses, and Cardiovascular Disease Processes: Review and Reassessment of Hypothesized Relationships." U.S. Environmental Protection Agency Report 550/9-80-101, June 1980.
- 9. Thompson, S.J. "Epidemiology Feasibility Study: Effects of Noise on the Cardiovascular System and Appendix B, Annotated Bibliography." U.S Environmental Protection Agency Report 550/9-81-103, July 1981.
- 10. Estimates of the population of counties and metropolitan Area. Number of Inhabitants, Nevada. Bureau of the Census, 1981.
- 11. Vital Statistics of the United States. US Department of Health, Education and Welfares, National Center for Health Statistics, 1980.
- 12. Statistical Abstract of the United States. US Department of Commerce, Bureau of the Census, 1985.
- 13. Table 1-6. Age-Adjusted Death Rates for Selected Causes, by Color and Sex: United States, 1969. Vital Statistics of the United States. US Department of Health, Education and Welfare, National Center for Health Statistics, 1969.
- 14. Table 1-6. Age-Adjusted Death Rates for Selected Causes, by Color and Sex: United States, 1972. Vital Statistics of the United States. US Department of Health, Education and Welfare, National Center for Health Statistics, 1972.
- 15. Table 1-6. Age-Adjusted Death Rates for Selected Causes, by Color and Sex: United States, 1977. Vital Statistics of the United States. US Department of Health, Education and Welfare, National Center for Health Statistics, 1977.
- 16. Table 1-7. Age-Adjusted Death Rates for 72 Selected Causes, by Race and Sex: United States, 1980. Vital Statistics of the United States. US Department of Health, Education and Welfare, National Center for Health Statistics, 1980.
- 17. Estimates of the population of Counties and Metropolitan Areas. July 1, 1964 & 1965. Population Estimates and Projections, Bureau of Census, p. 25.

- 18. Estimates of the population of Counties and Metropolitan Areas. July 1, 1965 & 1966. Population Estimates and Projections, Bureau of Census, p. 25.
- 19. Estimates of the population of Counties and Metropolitan Areas. July 1, 1966 & 1967. Population Estimates and Projections, Bureau of Census, p. 25.
- 20. Estimates of the population of Counties and Metropolitan Areas. July 1, 1967 & 1968. Population Estimates and Projections, Bureau of Census.
- 21. Estimates of the population of Counties and Metropolitan Areas. July 1, 1968 & 1969. Population Estimates and Projections, Bureau of Census.
- 22. Estimates of the population of Counties and Metropolitan Areas. July 1, 1969 & 1970. Population Estimates and Projections, Bureau of Census.
- 23. Estimates of the population of Counties and Metropolitan Areas. July 1, 1970 & 1971. Population Estimates and Projections, Bureau of Census.
- 24. Estimates of the population of Counties, July 1, 1971 & 1972. Population Estimates and Projections, Bureau of Census, p. 40.
- 25. Estimates of the Population of Metropolitan Areas, 1972 & 1973, and Components of Change, since 1970. Population Estimates and Projections, Bureau of Census.
- 26. 1973 (revised) and 1975 population estimates & 1972 (revised) & 1974 per capita income estimates for counties & incorporated places in Nevada. Population Estimates and Projections, Bureau of Census, p. 25.
- 27. Estimates of the population of Counties and Metropolitan Areas. July 1, 1974 & 1975. Population Estimates and Projections, Bureau of Census, p. 73.
- 28. Estimates of the population of Counties and Metropolitan Areas. July 1, 1975 & 1976. Population Estimates and Projections, Bureau of Census, p. 68.
- 29. Estimates of the population of Counties and Metropolitan Areas. July 1, 1976 & 1977. Population Estimates and Projections, Bureau of Census, p. 68.
- 30. Estimates of the population of Counties and Metropolitan Areas. July 1, 1977 & 1978. Population Estimates and Projections, Bureau of Census, p. 66.

- 31. Estimates of the population of Counties and Metropolitan Areas. July 1, 1978 & 1979. Population Estimates and Projections, Bureau of Census.
- 32. Estimates of the population of Counties and Metropolitan Areas. July 1, 1979 & 1980. Population Estimates and Projections, Bureau of Census.
- 33. Estimates of the population of Counties and Metropolitan Areas. July 1, 1980 & 1981. Population Estimates and Projections, Bureau of Census.
- 34. Estimates of the population of Counties and Metropolitan Areas. July 1, 1981 & 1982. Population Estimates and Projections, Bureau of Census.
- 35. Estimates of the population of Counties and Metropolitan Areas. July 1, 1982 & 1983. Population Estimates and Projections, Bureau of Census.
- 36. Estimates of the population of Counties and Metropolitan Areas. July 1, 1983 & 1984. Population Estimates and Projections, Bureau of Census.
- 37. Estimates of the population of Counties and Metropolitan Areas. July 1, 1984 & 1985. Population Estimates and Projections, Bureau of Census.
- 38. Provisional Estimates of the Population of Counties: July 1,1984. Local Population Estimates, p-26, #84-52-c, 1984, p.13.
- 39. Provisonal Estimates of the population of Counties and Metropolitan Areas, July 1, 1983. Local Population Estimates, p-26, #82-56-c, 1983.
- 40. Estimates of the population of Nevada Counties and Metropolitan Areas: July 1, 1982. Population Estimates and 1981 per capita income Estimates for Counties and Incorporated Places. Local Population Estimates, p-26, #82-28-5c, 1982, p. 6.
- 41. Estimates of the Population of Nevada Counties and Metropolitan Areas: July 1, 1981 and 1982 (provisional). Local Population Estimates. 1981, p.2.
- 42. 1977 Population estimates for Counties and Incorporated Places in Nevada, Estimates of the Population of Counties and Metropolitan Areas: July 1, 1977 and 1978. Local Population Estimates, 1977, p.5 and p. 67.

- 43. 1976 Population estimates and 1975 and revised 1974 per capita income estimates for counties and incorporated places in Nevada, estimates of the population of Nevada counties and Metropolitan Areas: July 1, 1976 (revised) and 1977 (provisional). Local Population estimates, 1976, p.3 and p.7.
- 44. Estimates of the population of States, by Age, 1965 and 1967. Population Estimates and Projections, 1965, p. 11.
- 45. Estimates of the popultion of States, by Age, 1960 to 1966 with provisional estimates for July 1, 1967. Population Estimates and Projections, 1966, p. 11.
- 46. Estimates of the Population of the United States, by Age, Sex, and Race: April 1, 1960 to July 1, 1973. Population Estimates and Projections; Series p-25 (519):30-35.
- 47. Estimates of the Population of the United States, by Age, Sex, and Race: 1970 to 1975. Population Estimates and Projections; Series p-25 (614): 7-22.
- 48. Estimates of the Population of the United States, by Age, Sex, and Race: 1970 to 1981. Population Estimates and Projections; Series p-25 (917):29-34.
- 49. Estimates of the Population of the United States, by Age, Sex, and Race: 1980 to 1984. Population Estimates and Projections; Series p-25 (965):17-24.
- 50. Provisional Projections of the Population of States, by Age and Sex: 1980 to 2000. Population Estimates and Projections; Series p-25 (937): 1-9.
- 51. Dixon, W.J., ed. BMDP Statistical Software, 1983
 Revised Printing. Los Angeles: UC Regents, 1983.
- 52. SAS Institute, Inc. SAS Applications Guide, 1980 ed. Cary, NC: SAS Institute, Inc., 1980.
- 53. SAS Institute, Inc. SAS User's Guide: Basics, Version 5 Ed. Cary, NC: SAS Institute, Inc., 1985.
- 54. Digital Equipment Corporation. Programming in VAX FORTRAN. Maynard, MA: Digital Equipment Corporation, 1984.
- 55. LeBlond, G., and Cobb, D: <u>Using 1-2-3</u>. Indianapolis: Que Corp., 1983.
- 56. Dixon, W.J. and Massey, F.J.: <u>Introduction to Statistical Analysis, third ed.</u> San Francisco: McGraw-Hill, 1969.

- 57. Dunn, O.J. and Clark, V.A.: Applied Statistics:
 Analysis of Variance and Regression. Wiley & Sons,
 1974.
- 58. Afifi, A.A. and Azen, S.P: <u>Statistical Analysis: A Computer Oriented Approach</u>. New York: Academic Press, 1974.
- 59. Hollander, M. and Wolfe, D.A.: Nonparametric Statistical Methods. New York: John Wiley & Sons, 1973.
- 60. Mausner, J.S. and Bahn, A.K.: <u>Epidemiology: An Introductory Text</u>. Philadelphia: W.B. Saunders Co, 1974.
- 61. World Health Organization, "International Classification of Diseases," Commission on Professional and Hospital Activities, Ann Arbor, Michigan, 1979.

FIGURE 1
Map of Nevada with Risk Areas Denoting
Estimated Sonic Boom Exposure

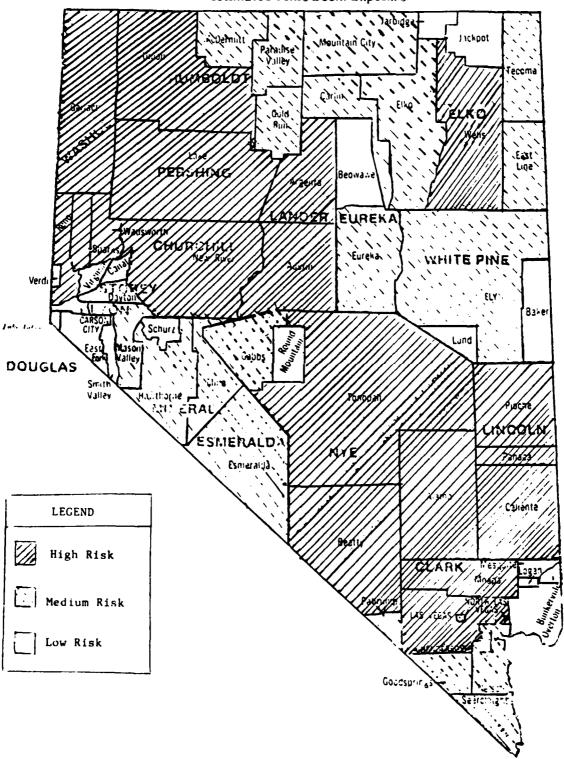


Table la. Race-specific population distribution for both sexes, by county, 1982-1983. Similiar data exist for previous years (1964 to 1981).

A IMOD	WHITE	BLACK	INDIAN	OTHERS	TOTAL
STATE TOTAL	775644	56482	14625	39809	886560
7	31125	463	1565	111	33930
; =	13384	<u>8</u>	9	535	14720
C! APK	434803	51457	3330	25430	515020
DOUBLE AS	20666		381	336	21420
FIE	16977	66	1685	1125	19880
C CATEDDA! DA	2.43	0	23	34	006
FIDENA	200		1	55	1400
CUNCER PA	946	, L	828	181	11820
TOWARD TO	4780	; c	170	301	5260
	4043	c	7.	172	4290
LINCOLN	7000	•	. C	342	15240
	7 6 6 6	- 6	200	26.4	6290
MINEKAL	006.6	600		700	0,,,,
NYE	12387	.	5 C		7777
PERSHING	3371	0	306	162	OV/E
STOREY	1626	0	4	6	1 00
MASHOF	192364	3872	3633	8501	208320
WHITE PINE	8683	0	259	358	9310
COUNTY	WHITE	BLACK	INDIAN	DTHERS	TOTAL
STATE TOTAL	803037	58477	15141	41214	917870
	31584	410	1588	788	34430
Children	13539	102	108	541	14890
CLAPK	45179R	53468	3460	26424	535150
DUNG! #S	21418	39	394	349	22200
FIKO	17899	96	1777	1186	20960
E SMERRAL DA	862	0	24	34	920
FUREKA	1319	0	4	57	1420
HUMBOLD T	9916	46	838	1199	12000
LANDER	5053	0	180	317	5550
N JUSTI	4203	0	4.0	179	4460
NO.	14964	20	6 18	358	15960
MINERAL	4922	384	643	261	6210
NYE	14405	96	603	189	15490
PERSHING	3443	0	211	166	3820
STOREY	1674	0	42	34	1750
MACHOF	105565	2000	22.43	2020	213810
				0000	

Table 1b. Race-specific population distribution for males, by county, 1982-1983. Similiar data exist for previous years (1964 to 1981).

STATE TOTAL			NATORI	OTHERS	TOTAL
	392984	28345	7270	20013	448611
CARSON CLIT	15697	344	785	427	17253
CHURCHILL	6777	62	335	250	7424
CLARK	220281	25555	1660	12242	259739
DOUGLAS	10512	2	191	175	10898
ELKO	8861	63	845	673	10442
ESMERRALDA	445	0	12	22	478
EUREKA	104	0	21	30	755
HUMBOLDT	5266	2	415	723	6425
LANDER	2587	0	11	183	2848
LINCOLN	2012	0	39	7.8	2129
LYDN	7116	0	300	204	7691
MINERAL	2523	2 to	322	134	3189
NYE	6656	4	274	166	7 144
PERSHING	1779	0	66	5	1974
STOREY	800	· c		3 9	
MASHOE	96599	202	1778	448.2	10400
MITE PINE	4347	0	141	206	4694
COUNTY	WHITE	BLACK	INDIAN	DIMERS	TOTAL
STATE TOTAL	406862	29346	7526	20720	454454
CARSON CITY	15928	349	797	E .	17507
CHURCHILL	6859	63	339	252	7510
CLARK	228891	26554	1725	12721	269891
DOUGL AS	10895	21	198	182	11295
ELKO	9342	67	891	7 10	11010
ESMERRALDA	455	0	12	22	489
EUREKA	714	0	2.4	3.	766
HUMBOLDT	5346	22	421	134	6523
LANDER	2730	0	82	193	3005
ר ואכטרא	1602	0	-	Ē	2213
LYON	7515	Ξ	315	214	R054
MINERAL	2491	208	318	132	3148
NYE	7740	56	318	193	8308
PERSHING	18 12	0	95	109	2016
STUREY	863	0	22	œ	893
WASHUE	007.00	3000			
		5		45EC	107

by county, 1982-Table 1c. Race-specific population distribution for females, 1983. Similiar data exist for previous years (1964 to 1981).

COUNTY STATE TOTAL CARSON CITY CHURCHILL CLARK	WHI TE	BLACK	MON	DIMERS	
TATE TOTAL ARSON C177 HURCHILL LARK		,			TOTAL
ARSON C117 HURCHILL LARK	382661	28138	7355	19796	437949
HURCHILL LARK	15429	119	780	350	16677
LARK	6607	38	365	286	7296
	214522	25902	1669	13188	255281
DOUGL AS	10154	e	6	161	10522
ELKO	8116	30	840	151	9438
ESMERRALDA	398	0	12	12	422
EUREKA	597	0	22	26	645
HUMBOLDT	4502	24	411	459	5395
LANDER	2202	0	66	117	2412
INCOLN	2031	0	36	94	2161
NOA	7113	6	289	8 00	75.49
MINERAL	2463	178	OEE	13.	101
NYE	5731	25	244	- E	6176
PERSHING	1597	C	-		1766
STOREY	982	• •			
A SHOE	95785	180	- מי טיי	407	552
WHITE PINE	4336	· C		660	66.800
COUNTY	WHITE	RIACK	NATONI	20277	10101
	!	1			1
STATE TOTAL	396175	29131	7615	20495	453416
CARSON CITY	15656	120	191	355	16923
CHURCHILL	8684	39	369	289	7380
CLARK	222906	26914	1735	13703	265259
DOUGLAS	10523	-	197	167	10905
ELKO	8557	32	886	476	0366
ESMERRALDA	401	0	12	12	431
FUREKA	909	0	23	56	654
HUMBOLDT	4570	24	417	466	5477
LANDER	2323	0	86	124	2545
LINCOLN	2112	0	37	86	2247
LYON	7449	6	303	144	7906
MINERAL	2431	176	326	129	3062
NYE	6665	38	284	195	7 182
PERSHING	1631	0	115	5.2	1804
STOPEY	812	c	20	56	A57
MASHUE	97857	1840	1895	4126	105719
WHITE DINE	7007	c			

by county, 1982-Table 2a. Age-specific population distribution for both sexes, 1983. Similiar data exist for previous years (1964 to 1981).

STATE TOTAL CARSON CITY CHURCHILL	,)	MGE, VK	1 AGE 2_5	AGE 6_12	AGE 13_18	1 AGE 19 24	AGF 24 34	AGE 35 44	AGE 45_54	AGE55_64	AGERS_74	AGE 75_U
HURCHILL	986560	14134	12630	46766	90763	89578	101828	160754	116634	20270	25052	50042	
HURCHILL	1 33930	457	409	1492	3282	3658	3396	5881	4570	2569	7275	2460	2007
i	14720	253	232	866	1610	1537	1532	2147	1746	1449		971	
CLARK	515020	8466	7540	28144	54808	52563	60573	92767	68719	54733	4155		2007
DOUGLAS	21420	350	269	1047	2139	2055	1651	4339	1906	2313	2486	*2.5	
ELKO	19880	327	342	1227	2292	2315	1862	3204	2619	2001	10	C & C	40.5
ESMERRALDA	8	12		54	11	7.8	77	134	# C	-	701		,
EUREKA	90	36	5	96	138	157	5.05	237	9	2		P C	7 5
HUMBOLD1	11820	216	219	795	1275	121	1224	400	707	. ברי	132	70	4 6
LANDER	5260	128	132	286	784	55.0	. 69	000	20.0		7 6	p (6/7
LINCOLN	4290	ξ	٤	900			360	- 60 %	0 6	700	ה ה ה	210	50
707		3 5	3	0 0			n i	900		B .	417	392	157
	0000	707	9/7	256	1682	1693	1219	2247	1833	1713	1844	1215	533
I WE KAL	6290	=	11	372	131	8	503	896	739	739	743	458	218
MYE	13320	211	216	779	1409	1432	1290	1968	1714	1533	1562	488	319
PERSHING	3740	2	6	229	353	363	707	565	565	405	448	286	144
STOREY	1700	29	24	92	135	156	E. 8.1	285	228	224	#D)	121	
MASHDE	208320	2993	2550	9473	18772	19743	25932	40883	27.130	22445	20744		5.76R
MHITE PINE	9310	138	171	909	1080	956	685	1396	1033	1082	1042	705	4.18
COUNTY	AGE_ALL	AGE_LT+	AGE VR	AGE 2 S	AGES 12	AGE 13 18	AGE 19 24	AGE 25 34	AGE 34 44	AGF 45 54	AGE 55 64	AGF 65 74	AGE 75 111
			`	ا ،	ı	,	1						
STATE TOTAL	Ð	14633	13076	48417	93967	92743	105424	166431	120753	97933	89092	52743	22655
CARSON CITY		463	4 15	1514	3333	3713	3446	5968	4637	3621	3781	2505	1057
CHURCHILL	14890	256	234	875	1629	1555	153	2171	1778	1465	15.30	1160	E E
CLARK	535150	8797	7835	29244	56949	54720	62940	96394	71405	56872	49417	29106	11471
DOUGLAS	22200	362	279	1085	2216	2131	1711	1447	3172	2197	27.76	1264	σ τ
ELKO	20960	345	360	1294	2415	2441	1964	3378	2761	2109	2020	1244	629
ESMERRALDA	920	12	5	56	79	8	78	600	5	113	137	10	32
EUREKA	1420	37	4	96	138	159	151	240	15.4	25.0	134	60	4
HUMBOLDT	12000	219	223	808	1295	1229	1253	2087	1484	1355	191	603	283
LANDER	5550	135	139	401	619	582	730	1046	550	530	4	222	73
LANCOLN	4450	Ş	Ç	351	532	594	359	590	484	345	428	40.0	163
LYON	15960	275	291	696	1761	1563	1277	2354	6161	1794	1631	1272	559
MINEKAL	5210	0 :	76	368	724	693	497	200	730	730	735	453	216
77 E	15490	245	752	902	1642	1666	1499	2289	1993	1783	1817	1029	372
PERSHING	3820	72	85	233	361	371	412	577	403	414	929	162	- 48
STOREY	1750	30	24	93	=	161	(8)	294	234	227	203	127	25
FASHUE	212870	3059	7608	A 7 7 B	10101	*****	1100						
		,		2	70.0		26498	A1776	27731	22937	21197	12112	5691

by county, 1982-1983. Table 2b. Age-specific population distribution for males, Similiar data exist for previous years (1964 to 1981).

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						YEA!	R+1982					•	
COUNTY	AGE_ALL	AGE_LT	AGE_YR!	AGE 2_S	AGE 8_12	AGE 13_18	AGE 19_24	AGE25_34	AGE35_44	AGF 45_54	AGE55_64	AGE65_74	AGE75_UP
STATE TOTAL	118611	7339	8438	23776	46482	45871	51655	81548	50187	48402	43279	24637	8893
CARSON CITY	17253	220	220	767	1664	1858	1855	3122	2370	1794	1834	1178	370
CHURCHILL	7424	128	125	450	780	-	815	1065	902	7.14	113	547	3.15
CLARK	259739	4403	3817	14229	28078	26889	30887	46424	35182	27956	23785	13544	4574
DOUGLAS	10898	180	137	545	1901	1048	764	2234	1522	1177	1277	644	210
ELKO	10442	177	168	653	1193	1277	922	1659	1416	101	1038	599	242
ESMERRALDA	478	•	o	22	36	7	42	0,	9	64	65	43	16
EUREKA	755	ž	Ξ	49	60	60	9	133	Œ	5 0	35	33	20
HUMBOLD T	6425	128	122	440	645	629	683	1145	792	745	673	289	137
LANDER	2848	10 to	99	194	326	284	372	541	337	295	226	106	38
LINCOLN	2129	9	9.0	175	279	222	183	287	233	175	208	185	99
LYON	1691	128	148	339	875	173	58.1	1113	918	855	954	622	233
MINERAL	3189	34	Q	176	367	350	283	456	386	370	379	225	101
NYE	7 144	122	-	917	146	151	688	1042	929	869	837	474	150
PERSHING	1974	32	29	137	167	96	212	325	161	231	257	143	63
STOPEY	896	12	5	42	11	98	Ç,	134	131	101	104	9	12
MACHOF	104861		1298	4751	98.47	10125	12841	21113	14084	11373	10275	5614	2188
MATTE OTHE	7007	, ,	600	16	25.5	404	323	697	5,60	24.0	529	336	175
4				, , ,	1 1 1 1 1	AF AF	1991.40			1			•
		! !					7						
COUNTY	AGE_ALL	AGE_LT!	AGE VR	AGE 2_5	AGE 8_12	AGE 13_1R	AGE 19_24	AGE25_34	AGE35_44	AGE 45_54	AGE 55_64	AGE65_74	AGE 75 UP
STATE TOTAL	464454	450	6665	24618	48125	6577	53480	84531	62313	50111	44808	25507	9206
CADSON CITY		224	224	778	1688	1886	1882	3169	2404	1820	1861	1196	375
CHIRCHILL		120	128	. Y	48.0	E	R25	1078	912	722	792	553	319
CLARK	269891	4575	3966	14786	29176	27941	32095	48239	36558	29048	24714	14073	4771
DOUGLAS	11295	186	142	564	1101	1085	792	2315	1682	1219	1323	668	218
ELKO	11010	187	117	687	1258	1346	972	1749	1492	1160	1093	631	255
ESMERRALDA	489	60	50	23	38	4	44	7.2	62	65	99	7	16
EUREKA	766	-	Ξ	49	9	80	42	135	82	90	16	34	20
HUMBOLDT	6523	127	123	447	658	637	694	1162	804	796	683	294	138
LANDER	3005	68	69	204	344	300	392	570	355	312	239	412	Q
LINCOLN	2213	62	56	182	290	233	161	299	243	181	216	193	67
LYDN	8054	+34	155	355	917	8 10	608	1166	962	895	666	652	243
MINERAL	3148	53	40	174	362	344	279	450	381	366	375	222	106
NYE	8308	142	132	484	868	880	900	1212	1080	1010	974	551	175
PERSHING	2016	33	29	40	169	199	216	332	195	238	162	147	63
STOREY	893	11	13	43	11	30	8 0	138	135		113	62	5
WASHOE	107 151	1589	1326	4654	9858	10345	13121	21574	14391	11621	10499	5737	2235
WHITE PINE	4936	74	41	331	588	523	340	733	588	570	557	354	183

Table 2c. Age-specific population distribution for females, by county, 1982-1983. Similiar data exist for previous years (1964 to 1981).

		# GE_LT	AGE VR	AGE 2_5	AGE 8_12	AGE 13_18	1 AGE 19_24	AGE 25_34	AGE 35_44	AGE 45_54	AGE 55_64	AGE 65_74	AGE 79_U
STATE TOTAL	437949	6795	6192	22990	44281	43707	50172	79106	56447	46191	42773	26306	12989
CARSON CITY	16677	236	189	705	1619	1799	1541	2758	2201	1775	1892	1290	672
CHURCHILL	7296	125	101	4 16	830	729	7 18	1081	P54	734	739	899	368
CLARK	255281	4063	3723	13915	26729	25774	29685	46343	33537	26777	23773	14467	5979
DOUGL AS	10522	170	132	505	1078	815	886	2 105	1439	1136	1208	594	261
ELKO	9438	150	174	575	1098	1038	176	1545	1203	900	878	5A1	355
ESMERRALDA	422	6	ø	32	=	36	33	64	47	46	0,	25	15
EUREKA	545	22	•	45	75	7.7	60	104	12 12	65	£	25	22
HUMBOLDT	8395	ç	96	355	629	580	551	910	670	567	200	305	142
LANDER	2412	63	99	192	261	268	320	451	279	707	169	105	32
LINCOLN	2161	9	4	163	232	347	162	280	228	159	204	207	92
LYON	7549	135	130	428	908	721	639	1134	915	859	890	592	301
MINERAL	3101	. E.	96	198	369	354	220	440	353	368	364	234	Ξ
NYE	6176	•	103	362	663	676	602	926	785	665	124	410	169
PERSHING	1766	60	55	92	187	172	192	240	204	175	193	191	80
STUBEY	832	Ç	=	•	5	2	103	ţ	9	-	8	44	12
WASHDE	103459	HCP1	1252	4721	9125	96.18	13090	14771	13055	11074	10468	6268	3577
MHITE PINE	4616	67	79	291	525	461	363	697	473	240	513	368	. 243
COUNTY	AGE_ALL	AGE_LT!	AGE_YR!	AGE 2_5	AGE6_12	AGE 13_18	AGE 19_24	AGE 25_34	AGE 35_44	AGE 45_54	AGE 55_64	AGF65_74	AGE 75_
STATE TOTAL	453416	7035	6411	23802	45843	45251	51945	8 1900	58440	47822	44284	27735	13448
CARSON CITY	16923	240	161	715	1643	1826	1563	2799	2233	1801	1920	1310	682
CHURCHILL	7380	126	108	421	94	137	725	1094	863	743	747	606	369
CLARK	265259	4221	3869	14459	27774	26781	30845	48153	34848	27824	24702	15032	6214
DOUGL AS	10905	176	137	519	1117	845	919	2182	1491	1178	1253	616	27.1
ELKO	9950	158	183	909	1157	1097	166	1629	1268	949	926	613	374
ESMERRALDA	104	•	9	33	7	37	35	65	4	48	71	56	16
EUREKA	654	23	œ	45	75	78	9	105	82	99	65	20	22
HUMBOLDT	5477	92	66	362	640	193	655	925	681	869	507	309	146
LANDER	2545	67	69	202	276	284	800	475	294	218	179	10	34
LINCOLN	2247	42	48	170	241	361	168	292	238	165	212	215	96
LYDN	1906	Ξ	136	448	843	754	670	1189	958	006	933	620	314
MINERAL	3062	57	36	194	362	349	218	435	949	364	360	231	01
NYE	7182	103	120	421	112	787	200	1017	913	773	842	478	197
PERSHING	1804	39	53	93	190	178	197	246	209	178	196	145	83
STOREY	857	13	12	5	6.4	12	106	155	66	117	16	65	12
WASHDE	105719	1470	1280	4824	9125	0000	3777	*****	13340	21.61	10501	SA05	2000
						000					5.05	200	

Table 3a. Final version of age-specific population distribution for both sexes, by county, 1982-1983. Similiar data exist for previous years (1964 to 1981).

			48. 34	YR15 24	YR25_44	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	,	ŀ
COUNTY	YR ALE	ר ל		ı		60340	86053	72825
		19103	430054	163473	277388		1727	3511
FATE TOTAL	886360	10170	4776	5953	10451	0000	18.12	1826
ADSON CITY	33830	C 0 6 -		9870	3903	1448		04000
4 10 0000	14720		55.7		161486	54733	47558	
MUKCHILL		27313	78270	8696		2213	2486	200
LARK	912040		6047	3074	3	9 (40.0	1776
A 101 A	21420			3776	5823	200	7 .	•
200	0000	1596	3334	7	143	100	134	2
LKO		£3	116	200	7 1	791	(3)	96
SMERRALDA	3	9		254	399	• 0		873
47300	8	128	7 7	V	35.18	1305	7	
ON CALL	11830	1012	1828		900	502	392	7
		***	866	1068	3	700	412	540
ANDER	2220	,	140	760	103	* '	7701	1745
M TOLINA	4290	124	D !		0807	1713	7 70	
, moore	16340	1238	2393	F777		739	743	6
16	0.70	797	1085	945	1635		1552	1200
INFRAL	6290			1297	3682	1561		42
	13320	1048	7551		OAQ	4 05	20	•
1	07.4	224	\$28	949) i	100	198	*
ERSHING	2		500	281	513		AATOR	1764
TOREY	28	87	7000	1976	68022	22448		113
TO CLOSE	208320	12708	PEROZ		2429	1082	1047	•
WHITE PINE	9310	762	1525	647	!			
				YEAR-1983	, , , , , , , , , , , ,			
						1 1	42 886	36
			, ,	AC 810V	YR25 44	YR45_54		1
V 7.00 00 7	YR ALL	ار ا	TKD T	7	1			
					40000	97933	89092	
					28/184		2781	
STATE TOTAL	311810				10605	305	0	
VIII MUSCOCO	34430				1947	1465	25.0	
	00075					SER72	49417	
CHERCHILL	200				16//91	1000	2576	
CLARK	535130				1669	7337		
A 101 PM	22200				6419	2109	2020	
COCCERS	20950					611	137	
ELKO	950	5	119	133	248		134	95
ESMERRALDA	250				404	001		
FIDEKA	1420				1571	1325	, F.	
10000	12000				2027	530	4 16	
	C TR TR				0601	370	428	
LANDER	0000				101	9	1001	
LINCOLN	7480				4273	1794	7 1	
20>	15960				1614	130	CE./	
5					7.5			
100000	6250					C 6 F 7	3	

Table 3b. Final version of age-specific population distribution for males, county, 1982-1983. Similiar data exist for previous years (1964 to 1981).

	1 N L	רב" פ ב	YR5_14	YR15_24	VR25_44	YR45_54	YR59_64	GE_65
STATE TOTAL	448611	31737	66537	83287	141835	48402	43279	33530
ARSON CITY	17253	993	2446	3145	5492	1794	1834	1548
HURCHILL	7424	9	1146	1363	1961	7.14	773	862
LARK	259739	18962	40088	49253	8 1606	27956	23785	18099
JOUGLAS	10898	720	1533	1482	3856	1177	1277	854
ראס	10442	846	1725	1819	3075	101	1038	84
SMERRALDA	478	32	53	73	130	9	65	53
UREKA	755	9	96	147	214	88	95	53
UMBOLDT	6425	586	948	=	1937	745	673	426
ANDER	2848	280	454	573	878	295	226	77.
INCOLN	2129	255	379	339	520	175	208	251
YON	7691	495	1226	1123	2031	855	954	855
INERAL	3189	222	541	507	842	370	379	332
YE	7144	572	1044	1226	1971	869	837	624
ERSHING	1974	168	254	345	916	231	257	\$
TOREY	868	79	120	130	265	101	109	72
ASHUE	104861	6442	13806	19969	35197	11373	10275	7802
HITE PINE	4694	397	116	683	1257	541	529	υ 1
COUNTY	YR ALL	וני	YR5 14	YR15_24	YR25_44	YR45_54	YR55_64	9,
TATE TOTAL	161151	22850	CARRA	86230	145844	50111	44808	34713
ADCOM CTT	1091		1070	200	E 6 7 3	1830	1861	157
CHIDCHII	75.0	100		1377	000	722	782	872
LAPK	25050	19704	41656	51179	84797	29048	24714	18794
DUGLAS	11295	745	1590	1535	3997	1219	1323	886
LKO	11010	991	1819	1917	3241	1160	1093	88
SMERRALDA	489	33	55	75	134	62	99	9
UREKA	166	9	97	149	217	8	97	3
UMBOLDT	6523	594	963	1127	1966	756	683	43
ANDER	3009	293	479	605	929	312	239	152
INCOLN	2213	264	395	358	542	181	216	260
NOA	8054	518	1285	1176	2128	895	666	368
INERAL	3148	220	533	499	831	366	375	326
¥E	8308	999	1215	1425	2292	0101	974	726
FRSHING	2016	172	258	382	927	236	282	2
TOREY	893	99	122	135	273		113	7
ASHUE	107151	6582	14106	20405	35965	11621	10499	797

ρχ Table 3c. Final version of age-specific population distribution for females, county, 1982-1983. Similiar data exist for previous years (1964 to 1981).

COUNTY	YR_ALL	LE_5	YR5_14	YR15_24	YR25_44	YR45_54	VR55_64	GE_65
TATE TOTAL	437949	30430	63522	80185	135553	46191	42773	39295
IRSON CITY	16677	951	2331	2807	4959	1775	1892	1962
APRCHILL.	7296	888	1159	121	1935	734	139	964
ARK	255281	18370	38181	47338	79880	26777	23773	20446
MIGH AS	10522	671	1513	1399	3544	1136	1208	858
Ş	9438	750	1599	1627	2748	906	878	936
MERRAIDA	422	34	63	5.4	=	46	70	9
IPFKA	278	67	113	101	186	65	9	42
MEDI DI	8398	167	877	956	1580	360	200	447
NOF	2412	266	-	693	130	207	169	137
MCOI M	2181	200	369	419	508	159	204	299
20	7549	105	1166	1102	2049	859	068	893
NEDAL	3101	243	25.5	144	793	368	364	345
	6176	475	196	1072	1711	665	124	579
DCHING	1766		275	300	777	175	193	221
UDEY	C T		6	152	247	113	68	76
SHOP	103450	F 2 R R	13 190	19790	32826	11074	10468	9845
WHITE PINE	4616	366	749	899	1170	540	513	611
COUNTY	YR_ALL	LE_5	YR5_14	YR15_24	YR25_44	YR45_54	VR55_64	GE_65
STATE TOTAL	453416	31505	65764	83018	140340	47822	44284	40683
ARSON CITY	16923	964	2366	2848	5032	1801	1920	1992
HADOMELI	7380		1173	1224	1957	743	747	975
ARK	265259	8 C C C C C C C C C C C C C C C C C C C	39673	49 (88	83003	27824	24702	21246
DUG! AS	10905	694	1568	1481	3673	1178	1253	987
LK0	9950	790	1686	1716	2897	949	926	987
SMERRALDA	434	36	99	57	113	8	7.1	42
UREKA	654	68	7:-	101	181	99	65	42
UMBOLDT	9477	475	894	974	1606	695	507	455
ANDER	2545	279	436	921	769	218	179	77
INCOLN	2247	211	383	436	530	165	212	311
NON	1906	618	1220	1154	2147	900	933	934
INERAL	3062	239	541	436	784	364	360	34 1
	7 182	553	1103	1247	1990	773	842	675
ERSHING	1804	160	281	308	455	178	196	227
TOREY	188	61	86	156	295	117	-6	77
ASHOE	1057 19	5403	R1761	2000	17477	9171	10697	5
		,		2442	2			

Table 4 (page 1)
POPULATION OF RESIDENTS BY TOWNSHIP
NEVADA: 1968 - 1983

(1) Carson City 13525 15144 15468 18300 20000 21801 23700 25300 (2) Blew River 9516 10382 10513 11100 11500 11849 11900 12000 (3) Bunkervittle 234 268 244 258 266 308 321 331 60005prings 281 321 314 344 355 431 482 52300 12000 (3) Bunkervittle 234 268 244 258 266 306 321 648 259 148 259 17025 19125 19126 202262 210373 220607 232027 240849 14900 12000 (3) Bunkervittle 655 426 5426 202262 210373 220607 232027 240849 14900 12000 (4) 5426 5890 5674 5992 6212 6466 6807 7044 1801 1801 1801 1801 1801 1801 1801 1		Township	1968	9%	1970	1971	1972	1973	1974	1973	1976	1977	1978	1979	1980	1981	1982	1983	- Kean	s.0.
Carson City 13525 15144 15468 18300 2000 21801 2370 Blew River 9516 10382 10513 11100 11500 11849 11900 Burkerville 234 268 244 258 266 316 317 316 317 317 318 314 315 317 318 318 318 318 318 318 318 318 318 318 317 418 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 318 </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th> </th> <th></th> <th>_</th> <th></th>								 											_	
Mean River 9516 10582 10513 11100 11500 11849 11900 Bunkerville 234 268 244 258 266 306 301 Bunkerville 234 268 244 258 266 308 301 Bunkerville 231 311 344 365 431 432 431 432 Bendersom 1583 17107 1441 17701 17704 17704 1833 Logan 608 562 426 487 503 536 431 480 Mospe 396 402 353 373 385 431 450 497 Mospe 397 402 354 574 578 580 460 477 470 471 470 470 470 Mospe 402 353 373 385 431 460 460 460 460 471 471 471	£	Carson City	13525	15144	15468	18300	20002	10815	_	_		25803	27233		32028		33930	34430	24.779	6740
Bunkerville 234 268 244 258 266 306 306 321 Goodsprings 281 321 314 344 385 431 462 Heriderson 1583 17107 14412 17001 17704 17704 1432 Loss 608 562 426 426 426 431 451 Mesquite 655 723 674 777 710 779 732 Mesquite 655 723 674 771 710 779 730 Mesquite 655 723 674 771 710 779 750 Mesquite 655 752 674 771 710 779 450 Mesquite 655 567 574 770 771 770 770 Mesquite 575 574 5754 5763 566 667 677 Best fork 375 375	3	Her River	35	10382	10513	1100	11500	11849	_	_		12117	12506		13917		14720	14890	12289	1540
Goodsprings 281 314 344 385 431 462 Renderson 15835 17107 1641C 17301 17794 18303 Las Vegas 170253 19126 20226 21037 220697 232027 Logan 608 562 426 487 503 534 610 Resquite 653 723 674 777 710 779 779 Resquite 653 723 674 777 710 779 770 Resquite 653 723 674 777 710 779 770 Resquite 653 724 5724 5724 5736 640 670 Restorter 327 375 375 375 375 375 376 477 Searchtight 327 376 376 376 377 376 377 East Fork 326 375 376 376 <t< th=""><th>3</th><th>Bunkerville</th><th>234</th><th>268</th><th>544</th><th>258</th><th>992</th><th>308</th><th></th><th>_</th><th></th><th>R</th><th>627</th><th></th><th>765</th><th></th><th>267</th><th>875</th><th>384</th><th>125</th></t<>	3	Bunkerville	234	268	544	258	992	308		_		R	627		765		267	875	384	125
Menderaom 15835 17107 1641C 17304 17794 18303 Less Vegas 170255 191125 191260 202267 210373 220697 232027 Logan 608 562 426 487 503 554 610 Mesquite 655 723 674 777 710 739 779 Mesquite 655 723 674 777 710 739 779 Mesquite 655 726 5890 5674 5724 505 640 680 Mests 3950 4626 5871 5741 5756 680 680 680 680 680 680 680 680 680 680 680 680 680 680 680 680 680 680 680 680 680 680 680 680 680 680 680 680 680 680 680 680 680 680		Goodspr ings	281	321	314	344	385	(31		_		720	835		1003		1236	1338	188	343
Les Vegas 170253 191125 191260 202267 210373 220697 232027 Logan 608 562 426 487 503 554 610 Mesquite 655 723 674 777 710 739 779 Mesquite 655 723 674 777 710 739 779 Mesquite 5526 5890 567 592 6212 6496 6807 Metlson 3426 5890 5674 57241 5756 589 690 Metlson 1333 1419 1336 1376 1376 580 680 Searchlight 327 375 385 373 385 411 142 Beatline 30 376 386 436 436 437 436 Larkpot 30 37 386 437 437 437 436 Larkpot 37 37 37 <th></th> <th>Nenderson</th> <th></th> <th>17107</th> <th>164 10</th> <th>17001</th> <th>1730%</th> <th>17794</th> <th></th> <th></th> <th></th> <th>20766</th> <th>22534</th> <th></th> <th>24334</th> <th></th> <th>26266</th> <th>26918</th> <th>20466</th> <th>3680</th>		Nenderson		17107	164 10	17001	1730%	17794				20766	22534		24334		26266	26918	20466	3680
Logart 608 562 426 487 503 554 610 Mesquite 653 723 674 777 710 739 779 Mesquite 655 723 674 777 710 739 779 Mespa 376 402 353 373 385 431 450 Meteon 356 580 5674 5724 5756 5696 5607 Meton 333 449 1356 1376 1376 140 417 East Fork 327 375 375 375 385 400 417 East Fork 327 375 376 375 376 417 417 East Fork 327 386 375 376 371 387 417 417 East Fork 328 376 376 376 371 378 417 Battline 90 97 97			170255	191125	191260	202267	210373	250697		-	53486 2	280345	11097	338040 3	350511 3	169782	395690 4	114206	1273251	76973
Mesquite 655 723 674 717 710 739 739 Meepe 398 402 353 373 385 431 450 Meepe 346 586 5674 5724 5756 5696 6607 M. Las Vegas 356 5624 5724 5756 5697 5607 Searchlight 327 375 376 376 376 410 417 East Fork 327 375 376 376 376 400 417 East Fork 327 375 376 376 371 417 417 Laboe 236 285 3015 316 371 371 417 Laboe 236 386 431 371 371 371 371 East Fork 372 376 373 376 371 372 371 Laboe 372 373 372 372 372		Logan	909	Š	426	487	503	254	_			£	918		1087		1236	1338	787	285
Mooppe 398 402 353 373 385 431 450 Meteon 5426 5890 5674 5724 5726 6496 6807 M. Las Vegas 3826 5624 5724 5736 5864 5920 Operton 1333 1419 1336 1376 1376 1466 407 Searchlight 327 375 376 373 385 400 417 East Fork 3244 3861 4386 4386 5051 3862 6517 Last Fork 3244 3861 3164 3476 3716 417 Last Fork 326 285 3015 3164 371 371 371 Last Line 90 97 97 117 147 178 178 Last Line 90 97 97 117 147 178 178 Jarchpot 0 0 0 0 0		Nesquite	655	723	429	717	710	739	_			834	876		922		R	1017	1 814	116
Metson 5426 5890 5674 5926 6212 6496 6807 M. Las Vegas 3850 47582 56241 57341 57843 5891 5950 Overton 1333 1419 1336 1376 1376 1376 1416 1416 Searchlight 327 377 356 373 385 400 417 East Fork 3444 3891 3867 4336 3746 376 417 Table 2382 2858 3015 3164 3449 376 417 Table 3282 3851 3166 417 417 417 417 Table 3282 3515 3166 3167 316 316 316 Lark 410 47 47 47 47 47 47 47 Lark 410 47 47 47 47 47 47 Lark 47 4		Hospe	398	4 05	353	373	385	431	_			531	929		202		E	826	539	157
M. Les Vegas 39500 47582 56241 57341 57858 58614 57500 Overton 1333 1419 1336 1376 1379 1416 1416 Searchlight 327 375 356 373 385 400 417 East Fork 3444 3891 3867 4336 5051 3626 6517 Table 2382 2858 3015 3164 3449 376 417 Table 2382 2858 3015 3164 3449 376 417 Earlin 90 977 977 977 177 177 178 205 Elko 90 977 971 177 177 178 205 Jackpot 0 0 0 65 137 317 318 Jackpot 105 113 1125 1026 118 117 117 Jackpot 207 21		Helson	9275	5890	5674	2665	6212	8	_			8109	8972		10059		11279	133	386	5069
Overton 1333 1419 1336 1376 1379 1416 1425 Searchlight 327 375 356 373 385 400 417 East Fork 344 3891 3867 435 5051 5822 6517 Tahoe 2382 2858 3015 3164 3449 3716 3892 Carlin 1271 1365 1356 1351 1376 1376 3893 Earlin 90 977 977 117 147 178 205 Elko 90 977 971 117 147 178 205 Jackpot 0 0 0 65 137 216 288 Jackpot 0 0 0 65 137 216 288 Jackpot 0 0 0 65 137 216 218 Jackpot 0 0 0 25 132		H. Los Vegas	_	78547	\$624.8	57541	82828	58614	_	_		64421	17789		71605		74369	26772	77229	9559
Searchlight 327 375 356 373 385 400 417 East Fork 344 3891 3867 436 5051 582 6517 Table 2382 2858 3015 3164 3469 3716 3892 Carlin 1271 1365 1356 1308 1371 1376 3156 East line 90 97 97 117 147 178 205 East line 90 97 971 177 177 178 205 Elko 369 8994 8931 8657 939 9853 9978 Jackpot 0 0 0 65 137 126 205 Jackpot 0 0 0 65 137 216 288 Jackpot 1055 1133 1125 1096 1146 1182 1178 Jecoma 207 221 221 215		Overton	1333	1419	1336	1376	1390	1416				1554	1669		1752		1854	1873	1555	2
East Fork 3444 3891 3867 4336 5051 5822 6517 Tahoe 2382 2858 3015 3144 3449 3716 3892 6517 3449 3716 3893 Cartin 1271 1365 1356 1308 1371 1375 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1376 1377 1376 1376 1376 1376 1376 1376 1376 1376 <		Searchl ight	327	33	356	33	385	007				863	245		620		670	969	787	118
Tathoe 2362 2858 3015 3164 3449 3716 3883 Cartin 1271 1365 1356 1356 1356 1351 1376 1354 Elko 90 97 97 117 147 178 205 Jackpot 0 0 0 65 137 214 205 Jackpot 0 0 65 137 214 205 205 Jackpot 0 0 6 137 142 178 205 Jackpot 20 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32	3	East Fork	3444	3891	3867	4336	5051	5822				2116	10764		14053		16191	17141	8949	1297
Cartin 1271 1365 1356 1356 1351 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 1375 <			2382	2858	3015	3164	3449	3716				7177	4807		5368		\$229	\$050	7217 l	951
East line 90 97 97 117 147 178 205 Elto 8349 8994 8931 8857 9399 9853 9978 Jackpot 0 0 65 137 214 208 Jarbidge 29 32 32 32 32 34 35 Ht. City 1055 1133 1125 1098 1148 1182 1178 Iccome 207 222 221 215 223 236 2178 Vetls 207 222 221 216 2184 2117 Vetls 207 222 221 216 2184 213 Esmeralda 346 561 629 600 500 704 700 Beotesia 347 347 345 345 406 317 Gold Run 251 248 241 246 241 246 241 Beo	3	_	1271	1365	1356	1308	1351	1376				1224	1216		1280		1382	1409	1314	26
Elito 8369 8994 8931 8857 9399 9853 9978 Jackpot 0 0 6 137 214 286 Jarbidge 29 32 32 32 34 32 Mt. City 1055 1133 1125 1096 1146 1182 1178 It. City 1055 1133 1125 1096 1146 1182 1178 Vetta 207 221 221 221 223 236 228 Vetts 207 2212 2196 2196 2184 2178 2178 Vetts 207 2212 2196 2196 2184 2134 218 218 213 Beconsul 349 361 401 373 365 406 307 317 Beconsul 251 254 257 257 258 618 613 Gold Run 251 252 253 <th></th> <th>East line</th> <th>8</th> <th>44</th> <th>44</th> <th>117</th> <th>147</th> <th>178</th> <th></th> <th></th> <th></th> <th>274</th> <th>304</th> <th></th> <th>8</th> <th></th> <th>519</th> <th>581</th> <th>192</th> <th>149</th>		East line	8	44	44	117	147	178				274	304		8		519	581	192	149
Jackpot 0 0 65 137 214 288 Jarbidge 29 32 32 32 32 34 35 Ht. City 1055 1133 1125 1096 1146 1182 1178 Tecoma 207 222 221 215 223 230 228 Wells 2057 2212 2196 2196 2196 2184 2133 Esmeralda 546 561 629 600 500 704 700 Beowave 349 380 401 373 345 406 387 Eureka 503 534 547 527 535 618 613 Gold Run 251 245 246 367 367 367 406 387 Horbermitt 1054 1073 1096 1044 1014 1032 1030 Paradise Valley 2728 277 2745 47		Elko	8369	800%	8931	8857	9399	9853				9883	10135		11398		13200	13961	10350	1513
Jambidge 29 32 32 32 34 35 34 35 34 35 34 35 34 35 34 35 34 35 34 35 34 35 34 35 34 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 <		Jackpol	0	0	0	65	137	214				8,	578		6		1117	1274	197	33
Ht. City 1055 1133 1125 1098 1148 1182 1178 Tecome 207 222 221 215 223 230 228 Wells 2057 2212 2196 2196 2159 2184 2133 Esmeralda 546 561 629 600 500 704 700 Boowene 349 380 401 373 345 406 387 Eureka 503 534 547 527 535 618 613 Gold Run 251 245 236 263 292 387 McDermitt 1054 1073 1086 1044 1014 1032 1030 Paradise Valley 269 264 257 248 247 246 247 Union 4778 4774 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 <th></th> <th>Jarbidge</th> <th>&</th> <th>32</th> <th>35</th> <th>×</th> <th>32</th> <th>35</th> <th></th> <th></th> <th></th> <th>20</th> <th>31</th> <th></th> <th>33</th> <th></th> <th>ጵ</th> <th>82</th> <th>33</th> <th>~</th>		Jarbidge	&	32	35	×	32	35				20	31		33		ጵ	82	33	~
Tecone 207 222 221 215 223 230 228 Wells 2057 2212 2196 2196 2196 2196 2193 2133 Esmeralda 346 561 629 600 500 704 700 Boowene 349 380 401 373 365 406 387 Eureka 503 534 547 527 535 618 613 Gold Run 251 245 246 263 292 336 377 McDermitt 1054 1073 1096 1044 1014 1032 1030 Paradise Valley 269 264 257 248 247 246 247 Union 4778 4774 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775		Mt. City	1055	1133	1125	1098	1148	1182				1111	1119		1216		1360	1411	1178	8
Wells 2057 2212 2196 2106 2159 2184 2133 Esmeralda 346 561 629 600 500 704 700 Beomane 349 380 401 373 365 406 387 700 Eureka 503 534 547 527 535 618 613 Gold Run 251 245 236 263 292 336 377 McDermitt 1054 1073 1096 1044 1014 1032 1030 Paradise Valley 269 264 257 248 247 247 247 Union 4728 4775 4775 4755 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475 </th <th></th> <th>Tecome</th> <th>202</th> <th>222</th> <th>122</th> <th>215</th> <th>223</th> <th>230</th> <th></th> <th></th> <th></th> <th>213</th> <th>215</th> <th></th> <th>231</th> <th></th> <th>\$2</th> <th>992</th> <th>122</th> <th>\$</th>		Tecome	202	222	122	215	223	230				213	215		231		\$ 2	992	122	\$
Esmeralda 546 561 629 600 500 704 700 Beconewe 349 380 401 373 365 406 387 Eureka 503 534 547 527 535 618 613 Gold Run 251 245 236 263 292 336 377 McDermitt 1054 1073 1086 1044 1014 1032 1030 Paradise Valley 269 264 257 248 241 246 247 Union 4728 4773 4775 4755 4755 4755 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475 475			202	2122	21%	2106	2159	2184				1895	1851		1907		2008	2018	2034	118
Becomme 349 380 401 373 365 406 387 Eureka 503 534 547 527 535 618 613 Gold Run 251 245 236 263 292 336 377 McDermitt 1054 1073 1086 1044 1014 1032 1030 Paradise Valley 269 264 257 248 241 246 247 Union 4728 4773 4774 4775 4755 475 475 475 475 475 475 475 475 477 476 475 475 476 475 475 476 475 475 476 475 475 476 475 477 476 475 477 476 477 476 477 476 477 476 477 476 477 477 477 477 477 477 477 477	9	_	246	28	&	9	200	ž				730	830		Ħ		8	926	122	124
Eureka 503 534 547 527 535 618 613 Gold Run 251 245 238 263 292 336 377 McDermitt 1054 1073 1086 1044 1014 1032 1030 Paradise Valley 269 264 257 248 241 246 247 Union 4728 4773 4774 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775 4775	3	Beckere	340	38	4 01	373	365	4 06				356	382		6 04		143	636	393	8
Gold Run 251 245 238 263 292 336 377 Richermitt 1054 1073 1086 1044 1014 1032 1030 Paradise Valley 269 264 257 248 241 246 247 Union 4728 4773 4794 4745 4753 4994 5147		Eureka	203	234	247	227	535	618				631	203		2		22	8	58	145
iltt 1054 1073 1086 1044 1014 1032 1030 ise Valley 269 264 257 248 241 246 247 473 4794 4745 4745 4753 4994 5147	€	Gold Res	23	542	238	263	&	336				\$28	909		780		1085	1156	538	٤
se Valley 269 264 257 248 241 246 247 47 4728 4773 4794 4745 4745 4753 4994 5147		McDermitt	1054	1073	1086	104	1014	1032	_		_	1049	1090		1159		1340	1304	1103	8
1758 4773 4794 4745 4753 4994 5147		Paradise Valley	569	364	221	248	241	546		_	_	255	%		982		335	328	592	22
		Fig	8227	1113	7627	4745	4753	7667				5816	6270		200		1906	9215	1 6048	1469

5.D. = Standard Deviation

() * Reflect the county codes in Table

37068

49320

48650

48045

76757

37920

37984

37300

35600

33650

31500

29400

25981

25526

State

Table 5a. Race-specific population distribution for both sexes, by county, during the time interval between 1980 to 1983. Similar data exist for previous time intervals (1968-1969, 1970-1974, and 1975-1979).

COUNTY	WHITE	BLACK	INDIÄN	OTHERS	TOTAL
STATE TOTAL	3012291	219354	56797	154601	3443043
CARSON CITY	122940	1829	6181	3068	134019
CHURCHILL	52677	395	2755	2106	57935
	1686932	199640	12919	98663	1998 154
CLARK	80897	146	1490	1317	83850
DOUGLAS	64890	356	6442	4299	75987
ELKO		330	88	127	3406
ESMERRALDA	3191	_	163	211	5267
EUREKA	4893	0		4309	43119
HUMBOLDT	35632	165	3012		19158
LANDER	17442	Ó	620	1095	
LINCOLN	15453	o o	286	658	16398
LYON	55388	74	2287	1325	59074
MINERAL	19866	1549	2596	1052	25063
NYE	44044	288	1843	1188	47362
PERSHING	13070	0	800	629	14500
STOREY	6242	0	157	126	6525
WASHOE	755047	15000	14261	33366	817675
WHITE PINE	33157	0	988	1406	35551

<u>Table 5b.</u> Race-specific population distribution for males, by county, during the time interval between 1980 to 1983. Similar data exist for previous time intervals (1968-1969, 1970-1974, and 1975-1979).

COUNTY	WHITE	BLACK	INDIAN	OTHERS	TOTAL
STATE TOTAL	1526191	110080	28233	77722	1742225
CARSON CITY	62000	1359	3101	1686	68147
CHURCHILL	26672	245	1319	982	29220
CLARK	854638	99147	6441	47497	1007725
DOUGLAS	41150	78	747	686	42661
ELKO	23668	242	3230	2574	39914
ESMERRALDA	1684	0	44	83	1810
EUREKA	2648	ō	79	114	2841
HUMBOLDT	19210	78	1513	2637	23438
LANDER	9423	Ō	282	667	10373
LINCOLN	7689	Ŏ	150	298	B137
LYON	27816	39	1165	791	29811
MINERAL	10054	838	1283	533	12706
NYE	23666	173	973	591	25403
PERSHING	6880	Ö	361	413	7653
STOREY	3217	ŏ	82	30	3330
WASHOE	379160	7932	6980	17517	411589
WHITE PINE	16599	Ö	540	788	17925

<u>Table 5c.</u> Race-specific population distribution for females, by county, during the time interval between 1980 to 1983. Similar data exist for previous time intervals (1968-1969, 1970-1974, and 1975-1979.)

COUNTY	WHITE	BLACK	INDIAN	OTHERS	TOTAL
STATE TOTAL	1486101	109275	28564	76879	1700818
CARSON CITY	60941	469	3080	1382	65872
CHURCHILL	26005	150	1436	1125	28715
CLARK	832293	100493	6477	51165	990429
DOUGLAS	39747	69	743	630	41189
ELKO	31022	115	3212	1725	36073
ESMERRALDA	1507	0	44	44	1596
EUREKA	2247	Ō	84	97	2426
HUMBOLDT	16422	87	1499	1674	19681
LANDER	8019	0	338	427	8785
LINCOLN	7764	ŏ	137	360	B261
LYON	27572	34	1121	534	29263
MINERAL	9813	710	1315	521	12357
NYE	20378	115	868	597	21959
PERSHING	6191	0	438	217	6847
STOREY	3026	ō	74	96	3195
WASHOE	375887	7069	7280	15849	406086
WHITE PINE	16558	0	447	618	17626

Table 6a. Age-specific population distribution for both sexes, by county, during the time interval between 1980 to 1983. Similiar data exist for previous time intervals (1968-1969, 1970-1974, and 1975-1979).

	YRALL	18_5	YR5_14	YR15_24	YR25 44	YRAS 54	YPRE A.	40
ATE TOTAL	3443043	244433			;	,		
PSON CITY	07070	70 147	160606	634866	1077263	367360	334 196	20000
	2403	1761	18870	23512	0000	00077	000	079707
DECHILL	87938	7473	4100		200	14096	14720	13861
ARK	1996184	77077		07.0	15358	5699	5953	2.0
UGL AC			303665	374749	626529	212351	C+ 27 E+	1000
	2000	2440	11928	12037	289K7	1		COCIC
2	75987	609g	12703	011		200	16/6	6693
MERRALDA	3406		3	0/15/	22257	7647	7322	6790
DEKA		*C.7	627	491	917	717		
	1976	787	797	0.00	004	0 (P.	B/5
MBOLDT	43119	0786	466		700	280	496	352
NOER	40.48			7652	12833	4762	4279	2100
3	00.0		3153	3583	5000			2012
	16398	1744	288.0	1000	700	6791	1438	1019
ž	10074	7300		9067	3939	1274	1574	2000
	7	F 7 7 7	9273	8620	1.8.1	0700		EC03
Y KAL	25063	1821	4328	2760		0400	140	6776
•••	47367	2222		50/5	6512	2944	2963	2696
Selltra	***		880/	8166	12002	2442		2004
941146	14500	1260	2049	2803		0000	555	4280
JREY SEY	られった	707		5003	3/22	1570	1740	44.0
Stant.		20 1	900	1082	1984	447		
2	817675	49678	(05953	4 KROES			60/	569
TE PINE	35551	2012		5000	165007	88104	8 142 1	6976B

Table 6b. Age-specific population distribution for males, by county, during the time interval between 1980 to 1983. Similiar data exist for previous time intervals (1968-1969, 1970-1974, and 1975-1979).

COUNTY	YRALL	16_5	VR5_14	YR15_24	YR25_44	YR45_54	YR55_64	S9 30
			3070	773467	550828	187973	168080	13021
STATE TOTAL	1742225	123250	CO#8C7		2000	7005	7244	119
CADSON CITY	5R 147	3924	9659	12424	56017	600	7 1 1	
			4608	CHES	7743	2809	3043	338
CHURCHILL	29220	7300			216815	108467	92278	7017
CLARK	1007725	73569	152236	- 65			000	224
	13561	20.00	5004	5800	15095	460/	A D D	
DOGGLAS	007	0.00		100	11752	4206	3962	321
ELKO	39914	3535	7600		707	1 4 5	245	22
ESMERRALDA	1810	121	200					9
4 3 4 6 6	1841	328	362	- SG	802	466	005	- (
EUKERA			3460	4040	7065	2718	2454	155
HUMBOLDT	23438	C 7 .			2497	47.03	873	52
ANDER D	10373	1015	165	2080	ה ה		1	
	4137	412	1454	1299	1661	667	CR/	C F
LINCOLN	2 .		4754	4352	7874	3312	3698	331
LYON	11867	0161		, ,		1476	1512	133
MINEDAI	12706	687	2150	*107	. 3000	7		
	201400	30.00	3716	4357	7008	3088	2978	222
NYE	23403					708	966	79
DEBAHING	7653	69	785	222	3	7 (
	0000	176	45.4	501	5016	412	451	`
STURET	Occes		1		071861	44638	40330	3062
MASHOE	411589	25284	34 150	0000	20.1		, ,	101
MITTE DINE	17925	1514	2962	5609	4199	2008	1707	-

Table 6c. Age-specific population distribution for females, by county, during the time interval between 1980 to 1983. Similiar data exist for previous time intervals (1968-1969, 1970-1974, and 1975-1979).

:

VB A11	*	¥04	VD 15 24	V025 44	VD45 54	12 RAGY	100
3 1 2	3	1	2			2	3
1700818	118176	246692	311407	526434	179387	166115	152605
65872	3754	9207	11086	19586	101	7474	1751
28715	2183	4562	4764	7614	2890	2908	3796
990429	71272	148132	183558	309916	103889	92234	79328
41189	2625	5926	5479	13873	4448	4731	3350
36073	2865	6112	6220	10503	3441	3357	3579
1596	131	239	208	420	176	263	153
2426	254	426	399	697	245	241	155
19681	1705	3209	3500	5767	2044	1824	1632
8785	996	1500	1798	2657	753	617	498
8261	174	14 10	1602	1946	601	178	- 143
29263	2289	4520	4272	7944	3330	3451	3458
12357	965	2185	1758	3161	1467	1452	1374
21959	1690	3372	3810	6084	2365	2575	2061
6847	609	1068	1167	1724	617	746	980
3195	246	352	581	951	434	340	290
406086	24594	51769	17681	128845	43467	4 1089	38642
17626	1398	2858	2550	4471	2062	1959	2335

Table 7 Deaths of Residents by Township Nevada: 1968-1983

	Touriship	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	Mean	S.D.
(1)	Cerson City	121	133	119	124	122	148	131	149	164	189	251	242	274	240	327	285	189	6
(2)		103	77	108	103	94	96	100	122	128	136	118	128	143	157	126	155	118	2
3)	Bunkerville	1	2	1	2	2	2	2	2	5	3	3	3	3	3	4	4] 2	
	Goodsprings Henderson	1 91	101	2 103	105	2 109	3 115	3 117	2 118	5 130	7 140	7 143	6 153	7 169	7 167	9 183	9 183	[5 I 133	
	Las Vegas	1100	1132	1195	1248	1310	1424	1477	1522	1718	1885	1959	2152	2417	2443	2755	2 8 02	133 1784	5
	Logan	0	0	0	0	0	0	0	3	3	3	1	0	0	0	0	0	1 1	
	Mesquite	2	4	4	4	4	5	5	5	5	6	6	6	6	6	7	7	i s	
	Nospe	1	2	2	2	2	3	3	3	3	4	4	4	5	5	5	6	j 3	
	Helson	40	43	55	46	48	59	57	39	57	70	63	88	96	92	91	81	65	- 1
	N. Les Veges	191	290	348	355	360	377	379	377	408	432	432	456	492	477	517	503	400	
	Overton	3	0	0	0	0	0	1	9	3	6	7	2	0	0	0	13	3	
	Searchlight	0	0	1	0	0	0	0	3	4	2	4	_1	0	0	0	0	1 1	
4)	East Fork	19	27 20	22	31	24	24 15	32 19	33 19	53	52	71	70	91	67	80	80	49	
. .	Tahoe Carlin	13 11	10	18 12	23 9	16 10	13	9	12	28 13	25 11	32 11	29 11	35 11	23 11	26 9	23 8	23 11	
,,	East line	,,	1	1	1	1	2	i	3	3	3	3	3	- 14	4	4	3	1 2	
	Elko	75	71	81	64	77	90	66	85	105	87	95	99	104	105	93	79	1 86	
	Jackpot	.,	Ö	0	ő	1	2	2	3	5	5	5	6	7		8	7	4	
	Jarbidge	ō	0	ō	ō	0	ō	ō	0	ō	í	ó	0	ò	ō	0	Ö	0	
	Mt. City	0	0	0	0	0	0	1	4	8	5	5	3	7	6	6	2	3	
	Tecome :	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	Wells	18	16	20	15	17	20	14	15	21	15	17	17	16	17	14	11	16	
5)	Esmeralda	5	6	7	5	7	8	7	8	9	9	8	13	11	10	13	9	8	
7)	Becueve	3	5	2	4	3	2	4	3	3	3	0	3	3	2	3	2	3	
	Eureka	10	6	6	5	4	7	6	6	6	5	4	6	5	4	7	3	6	
3)	Gold Run	3	3	2	3	4	3	4	4	5	5	4	5	6	6	8	6	. 4	
	McDermitt	11	12	11	13	14	9	10	10	11	10	8	9	9	9	9	7 (10	
	Paradise Valley Union	3 47	53	2 47	3 59	3 66	45	2 50	3 51	3 56	2 53	2 46	2 52	2 55	2 57	2 63	51	53	
01	Argenta	18	17	13	25	17	18	18	17	14	27	18	20	25	28	23	23	20	
٠,	Austin	9	5	5	4	3	3	5	3	2	4	2	2	3	3	2	2	4	
10)	Alemo	3	5	2	5	5	4	2	6	6	5	8	8	11	9	9	8	6	
•	Caliente	7	12	6	11	11	7	4	12	15	9	16	8	11	8	5	7	9	
	Panaca	4	7	3	6	6	4	2	6	7	5	6	6	8	6	5	5	5	
	Pioche	5	8	4	7	7	5	3	6	5	4	5	6	8	6	5	5 [6	
11)	Canal	9	13	12	15	18	17	18	16	19	21	24	29	34	28	37	36	55	
	Dayton	5	8	7	10	14	15	17	16	20	24	29	36	45	38	53	52	24	1
	Meson Valley	35	49	43	49	55	48	47	39	41	42	44	48	52	38	46	39	45	
	Swith Valley	5	7	6	7	8	7	7	6	6	7	7	8	9	7	8	7	7 51	
12)	Hawthorne	55	49	45	75	58 5	58	51	40	41	53	40	44	49 5	62	43	59 (31 5	
	Hine Schurz	5	4	4	6	5	5	5	4	4	8 5	5	4 5	5	6 7	5	6 1	5	
111	Beatty	10	8	14	11	•	•	17	13		18	21	35	42	44	39	49	22	1
,	Gabbs	8	7	13	8	6	5	9	7	4	7	7	10	11	10	8	9	8	
	Pahrump	6	6	12	8	7	6	10	ė	6	10	10	14	16	16	13	16	10	
	Round Ht.	2	2	3	Z	2	2	3	3	1	3	3	6	7	7	6	8	4	
	Tonopeh	28	33	26	16	16	19	24	25	22	22	20	25	28	29	22	25	24	
14)	Lake	34	37	36	37	34	47	27	34	35	36	40	36	45	30	25	39	36	
15)	Virginia	17	8	12	9	11	12	6	10	9	15	11	2	12	6	11	14	12	
6)	Gertech	5	4	. 5	5	5	5	5	4	5	5	5	5	5	4	4	4	5	
	Reno	716	726	722	733	822	766	809	855	905	919	938	973	995	1026	1032	1020	872	1
	Sporks	215	205	233	244	282	268	288	293	335	343	356	375	397	412	429	432	319	i
	Verdi	5	4	6	6	7	7	7	7	9	8	9	9	10	10	11	11 (8	
7-	Wedsworth Rober	4	3	5	5	6	6	6	6	6	7	7	7	8	8	9	9	2	
")	Baker	1 57	1 72	1 86	1	1 67	1	2	2	2	2	2	5	2 79	3 94	3 90	82	79	
	Ely	3	3	3	86 3	2	66 2	79 3	76 3	89 4	80 3	79 3	80 4	4	5	4	4	3	
_													· · · · · ·						
		3149															6324	4610	10

Date of unknown township were not included, S.D. = Standard Deviation. () = Reflect the county codes.

Table 8a. Frequency and percentage distributions for cause-specific deaths for both sexes in Nevada during the time interval between 1968 to 1969. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

ILL	FREQUENCY	CUM FREQ	PERCENT	CUM PERCENT
LARYNX	•	8	0.122	0.122
MELANDMA	1	9	0.015	0.138
BREAST	42	51	0.642	0.779
STOMACH	24	75	0.367	1.146
ESOPHAGUS	24	99	0.367	1.513
BRAIN	10	109	0.153	1.666
OTHER CA.	549	658	8.389	10.055
ARI	33	691	0.504	10.559
BRONCHITIS	39	730	0.596	11.155
EMPHYSEMA	107	837	1.635	12.790
ASTHMA	20	857	0.306	13.096
HYPERTENSIVE HD	4	861	0.061	13.157
HYPER. H & RENAL	6	867	0.092	13,249
ACUTE MI	7	874	0.107	13.356
OTHER ISCHEMIC	2	876	0.031	13.386
OTHER HD	895	1771	13.677	27.063
HYPER. W DR /WO	18	1789	0.275	27.338
SUBARACHNOID HE	2	1791	0.031	27.369
CVA	357	2148	5.455	32.824
ILL-DEFINED	28	2176	0.428	33.252
ATHEROSCLEROSIS	1	2177	0.015	33.267
OTHER VESSELS	103	2280	1.574	34.841
ADJUST. DISORDER	1	2281	0.015	34.856
LO GA/BW	30	2311	0.458	35.315
MALFORMATION	51	2362	0.779	36.094
ALL OTHERS	4182	6544	63.906	100.000

Table 8b. Frequency and percentage distributions for cause-specific deaths for both sexes in Nevada during the time interval between 1970 to 1974. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

ILL	FREQUENCY	CUM FREO	PERCENT	CUM PERCENT
	1			
LARYNX	5	5	0.027	0.027
BREAST	292	297	1.549	1.575
ESOPHAGUS	70	367	0.371	1.947
Brain	69	436	0.366	2.313
OTHER CA.	1640	2076	8.698	11.011
ARI	30	2 106	0.159	11.170
BRONCHITIS	38	2144	0.202	11.372
EMPHYSEMA	411	2555	2.180	13.552
ASTHMA	31	2586	0.164	13.716
OTHER AWO	12	2598	0.064	13.780
HYPERTENSIVE HD	49	2647	0.260	14 039
HYPER. H & RENAL	59	2706	0.313	14.352
ACUTE MI	3	2709	0 016	14.368
OLD INFARCTION	6	2715	0.032	14.400
OTHER ISCHEMIC	8	2723	0.043	14.443
OTHER HD	606	3329	3.214	17.657
HYPER. W DR /WO	54	3383	0.286	17.943
SUBARACHNOID HE	2	3385	0.011	17.954
CVA	1544	4929	8.189	26.143
ILL-DEFINED	297	5226	1.575	27.718
ATHEROSCLEROSIS	2	5228	0.011	27.729
OTHER VESSELS	232	B460	1.231	28.959
LO GA/BW	217	5677	1.151	30.110
MALFORMATION	132	5809	0.700	30.810
ALL DIHERS	13045	18854	69. 1 9 0	100.000

Table 8c. Frequency and percentage distributions for cause-specific deaths for both sexes in Nevada during the time interval between 1975 to 1979. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

ILL	FREQUENCY	CUM FREQ	PERCENT	CUM PERCENT
•	14	•		
TRACHEA, LUNG	1	1	0.004	0.004
BREAST	404	405	1.682	1.686
ESOPHAGUS	72	477	0.300	1.986
BRAIN	70	547	Q. 291	2.277
OTHER CA.	2196	2743	9.142	11.420
ARI	6	2749	0.025	11.445
BRONCHITIS	49	2798	0.204	11.649
EMPHYSEMA	348	3146	1.449	13.097
ASTHMA	25	3171	0.104	13.201
OTHER AWO	145	3316	Q.604	13.805
PNEUMOCONIOSIS	3	3319	0.012	13.818
EXT. AGENT	4	3323	0.017	13.834
HYPERTENSIVE HD	28	3351	0.117	13.951
HYPER. H & RENAL	16	3367	0.067	14.017
ACUTE MI	607	3974	2.527	16.545
OTHER ISCHEMIC	19	3993	0.079	16.624
OTHER HD	1134	5127	4.721	21.345
HYPER. W OR /WO	23	515Q	0.096	21.440
SUBARACHNOID HE	13	5163	0.054	21,495
CVA	1427	6590	5.941	27.435
ILL-DEFINED	507	7097	2.111	29.546
OTHER VESSELS	277	7374	1.153	30.699
LO GA/BW	39	7413	0.162	30.862
MALFORMATION	175	7588	0.729	31,590
ALL OTHERS	16432	24020	68.410	100.000

Table 8d. Frequency and percentage distributions for cause-specific deaths for both sexes in Nevada during the time interval between 1980 to 1983. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

ILL	FREQUENCY	CUM FREQ	PERCENT	CUM PERCENT
	15			•
BREAST	420	420	1.718	1.718
COLON	1	421	0.004	1.723
OTHER CA.	2404	2825	9.836	11.558
ARI	2	2827	0.008	11.567
BRONCHITIS	34	2861	0.139	11.706
EMPHYSEMA	249	3110	1.019	12.725
OTHER AWO	778	3888	3, 183	15.908
PNEUMOCONIOSIS	5	3893	0.020	15.92B
EXT. AGENT	43	3936	0.176	16.104
ACUTE MI	2587	6523	10.585	26.689
OLD INFARCTION	10	6533	0.041	26.730
OTHER ISCHEMIC	63	6596	0.258	26.987
OTHER HD	2543	9139	10.405	37.392
SUBARACHNOID HE	68	9207	0.278	37.670
CVA	1338	10545	5.474	43.145
ILL-DEFINED	128	10673	0.524	43.668
OTHER VESSELS	228	10901	0.933	44.601
MALFORMATION	180	11081	0.736	45.338
ALL OTHERS	13360	24441	54.662	100.000

Table 8e. Frequency and percentage distributions for cause-specific deaths for males in Nevada during the time interval between 1968 to 1969. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

111	FREQUENCY	CUM FRED	PERCENT	CUM PERCENT
LARYNX	7	7	0.171	0.171
STOMACH	10	17	0.244	0 415
ESOPHAGUS	17	34	0.415	0.830
BRAIN	8	42	Q. 195	1.025
OTHER CA.	275	317	6.711	7.735
ARI	16	333	D. 390	B 126
BRONCHITIS	18	351	0.439	8.565
EMPHYSEMA	86	437	2.099	10 664
ASTHMA	12	449	0.293	10.957
HYPERTENSIVE HD	1	450	0.024	10 981
HYPER. H & RENAL	1	451	0.024	11.005
ACUTE MI	4	455	0.098	11 103
OTHER HD	601	1056	14 666	25,769
HYPER. W OR /WO	11	1067	0.268	26.037
SUBARACHNOID HE	2	1069	0.049	26 086
CVA	188	1257	4.588	30.673
ILL-DEFINED	12	1269	0.293	30.966
ATHEROSCLEROSIS	1	1270	0.024	30.991
OTHER VESSELS	58	1328	1.415	32,406
ADJUST. DISORDER	1	1329	0.024	32.430
LO GA/BW	19	1348	0.464	32.894
MALFORMATION	26	1374	0.634	33.529
ALL OTHERS	2724	4098	66.471	100.000

Table 8f. Frequency and percentage distributions for cause-specific deaths for males in Nevada during the time interval between 1970 to 1974. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

ILL	FREQUENCY	CUM FREQ	PERCENT	CUM PERCENT
	1			
2	4	4	0.035	0.035
6	2	6	0.017	0.052
9	46	52	0.398	0.450
10	39	91	0.338	0.788
11	928	1019	8.037	8.826
12	18	1037	0.156	8.981
13	26	1063	0.225	9.207
14	329	1392	2.849	12.056
15	11	1403	0.095	12.151
16	8	1411	0.089	12.221
19	23	1434	0.199	12 . 420
20	24	145B	0.208	12.628
21	2	1460	0.017	12.645
22	4	1464	0.035	12.680
23	5	1469	0.043	12.723
24	354	1823	3.066	15.789
25	30	1853	0.260	16.049
26	1	1854	0.009	16.038
27	764	2618	6.617	22.675
28	148	2766	1.282	23.956
29	1	2767	0.009	23. 965
30	150	2917	1.299	25.264
35	138	3055	1.195	26.459
36	64	3119	0.554	27.014
37	8427	11546	72.986	100.000

<u>Table 8g.</u> Frequency and percentage distributions for cause-specific deaths for males in Nevada during the time interval between 1975 to 1979. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

ILL	FREQUENCY	CUM FREQ	PERCENT	CUM PERCENT
	10			
3	1	1	0.007	0.007
6	5	6	0.034	0.041
9	57	63	0.387	0.428
10	36	99	0.244	0.672
11	1250	1349	8.483	9.154
12	3	1352	0.020	9.175
13	33	1385	0.224	9.399
14	251	1636	1.703	11.102
15	7	1643	0.048	11.150
16	96	1739	0.651	11.801
17	2	1741	0.014	11.815
18	2	1743	0.014	11.828
19	16	1759	0.109	11.937
20	6	1765	0.041	11.977
21	415	2180	2.816	14.794
23	12	2192	0.081	14.875
24	662	2854	4.492	19.368
25	8	2862	0.054	19.422
26	6	2868	0.041	19.463
27	700	3568	4.750	24.213
28	230	3798	1.561	25.774
30	182	3980	1.235	27.009
35	20	4000	0.136	27.144
36	103	4103	0.699	27.843
37	10623	14736	72.157	100.000

Table 8h. Frequency and percentage distributions for cause-specific deaths for males in Nevada during the time interval between 1980 to 1983. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

ILL	FREQUENCY	CUM FREQ	PERCENT	CUM PERCENT
	10		•	
BREAST	3	3	0.021	0.021
COLON	1	4	0.007	0.028
OTHER CA.	1376	1380	9.526	9.553
ARI	2	1382	0.014	9.567
BRONCHIT1S	14	1396	Q.097	9.664
EMPHYSEMA	171	1567	1.184	10.848
OTHER AWO	491	2058	3.399	14.247
PNEUMOCONIOSIS	5	2063	0.035	14.282
EXT. AGENT	25	2088	0.173	14.455
ACUTE MI	1745	3833	12.080	26.5 35
OLD INFARCTION	9	3842	0.062	26.597
OTHER ISCHEMIC	40	3882	0.277	26.874
OTHER HD	1452	5334	10.052	36.926
SUBARACHNOID HE	28	5362	0.194	37.120
CVA	592	5954	4.098	41.218
ILL-DEFINED	55	6009	0.381	41.599
OTHER VESSELS	152	6161	1.052	42.651
MALFORMATION	106	6267	0.734	43.385
ALL DTHERS	8178	14445	56.615	100.000

<u>Table 8i.</u> Frequency and percentage distributions for cause-specific deaths for females in Nevada during the time interval between 1968 to 1969. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

ILL	FREQUENCY	CUM FREO	PERCENT	CUM PERCENT
LARYNX	t	1	0.041	0.041
MELANOMA	1	2	0.041	0.082
BREAST	42	44	1.722	1.804
STOMACH	14	58	0.574	2.378
ESOPHAGUS	7	65	0.287	2.665
BRAIN	2	67	0.082	2.747
OTHER CA.	274	341	11,234	13.981
ARI	17	358	0.697	14.678
BRONCHITIS	21	379	0.861	15.539
EMPHYSEMA	21	400	0.861	16.400
ASTHMA	8	408	0.328	16.728
HYPERTENSIVE HD	3	411	0.123	16.851
HYPER. H & RENAL	5	416	0.205	17.056
ACUTE MI	3	419	0.123	17.179
OTHER ISCHEMIC	2	421	0.082	17.261
OTHER HD	291	712	11.931	29.192
HYPER. W OR /WO	7	719	0.287	29.479
CVA	169	888	6.929	36.408
ILL-DEFINED	16	904	0.656	37.064
OTHER VESSELS	45	949	1.845	38.909
LO GA/BW	11	960	0.451	39.360
MALFORMATION	25	985	1.025	40.385
ALL OTHERS	1454	2439	59.615	100.000

Table 8j. Frequency and percentage distributions for cause-specific deaths for females in Nevada during the time interval between 1970 to 1974. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

ILL	FREQUENCY	CUM FREQ	PERCENT	CUM PERCENT
LARYNX	1	1	0.014	0.014
BREAST	290	291	3.968	3.982
ESOPHAGUS	24	315	0.328	4.310
BRAIN	30	345	0.411	4.721
DTHER CA.	712	1057	9.743	14.464
ARI	12	1069	0.164	14.628
BRONCHITIS	12	1081	0.164	14.792
EMPHYSEMA	82	1163	1.122	15.914
ASTHMA	20	1183	0.274	16.188
OTHER AWO	4	1187	0.055	16.242
HYPERTENSIVE HD	26	1213	0.356	16.598
HYPER. H & RENAL	35	1248	0.479	17.077
ACUTE MI	1	1249	0.014	17.091
OLD INFARCTION	2	1251	0.027	17.118
OTHER ISCHEMIC	3	1254	0.041	17, 159
OTHER HD	252	1506	3.449	20.608
HYPER. W OR /WO	24	1530	0.328	20.936
SUBARACHNOID HE	1	153†	0.014	20.950
CVA	780	2311	10.673	31.623
ILL-DEFINED	149	2460	2.039	33.662
ATHEROSCLEROSIS	1	2461	0.014	33.675
OTHER VESSELS	82	2543	1.122	34.797
LO GA/BW	79	. 2622	1.081	35.878
MALFORMATION	68	2690	0.930	36.809
ALL OTHERS	4618	7308	63.191	100.000

Table 8k. Frequency and percentage distributions for cause-specific deaths for females in Nevada during the time interval between 1975 to 1979. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

ILL	FREQUENCY	CUM FREQ	PERCENT	CUM PERCENT
	4	•		
BREAST	399	399	4.299	4.299
ESOPHAGUS	15	414	0.162	4.461
BRAIN	34	448	0.366	4.827
DTHER CA.	946	1394	10.193	15.020
ARI	3	1397	0.032	15.052
BRONCHITIS	16	1413	0.172	15.225
EMPHYSEMA	97	1510	1.045	16.270
ASTHMA	18	1528	0.194	16.464
OTHER AWO	49	1577	0.528	16.992
PNEUMOCONIOSIS	1	1578	0.011	17.002
EXT. AGENT	2	1580	0.022	17.024
HYPERTENSIVE HD	12	1592	0.129	17, 153
HYPER. H & RENAL	10	1602	0.108	17.261
ACUTE MI	191	1793	2.058	19.319
OTHER ISCHEMIC	7	1800	0.075	19.394
OTHER HD	472	2272	5.086	24,480
HYPER. W OR /WO	15	2287	0.162	24.642
SUBARACHNOID HE	7	2294	0.075	24.717
CVA	727	3021	7.833	32.550
ILL-DEFINED	277	3298	2.985	35.535
OTHER VESSELS	95	3393	1.024	36.559
LD GA/BW	19	3412	0.205	36.763
MALFORMATION	72	3484	0.776	37,539
ALL OTHERS	5797	9281	62.461	100.000

<u>Table 81.</u> Frequency and percentage distributions for cause-specific deaths for females in Nevada during the time interval between 1980 to 1983. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

166	FREQUENCY	CUM FREQ	PERCENT	CUM PERCENT
	5		•	
BREAST	417	417	4.174	4.174
OTHER CA.	1028	1445	10.289	14.463
BRONCHITIS	20	1465	0.200	14.663
EMPHYSEMA	78	1543	0.781	15.444
OTHER AWO	287	1830	2.873	18.316
	18	1848	0.180	18.497
EXT. AGENT	842	2690	8.428	26.924
ACUTE MI	042	2691	0.010	26.934
OLD INFARCTION	1	2714	0.230	27.164
OTHER ISCHEMIC	23	_	10.920	38.084
OTHER HD	1091	3805	0.400	38.485
SUBARACHNOID HE	40	3845	•	45.951
CVA	746	4591	7.467	
ILL-DEFINED	73	4664	0.731	46.682
OTHER VESSELS	76	4740	0.761	47.443
MALFORMATION	72	4812	0.721	48 163
ALL OTHERS	5179	9991	51.837	100.000

Table 9a. Final version of frequency and percentage distributions for cause-specific deaths for both sexes in Nevada during the time interval between 1968 to 1969. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

GR	FREQUENCY	CUM FREQ	PERCENT	CUM PERCENT
CANCER	558	658	10.055	10.055
RESPIRA- TORY	199	857	3.041	13 096
HEART	914	1771	13.967	27.063
HYPER- TENSION	18	1789	0.275	27.338
CVA	387	2176	5.914	33.252
ATHEROSCLEROSIS	Í	2177	0.015	33.267
OTHER VESSELS	103	2280	1.574	34.841
STRESS/ EMOTION	1	2281	0.015	34.856
REPRO DUCTION	30	2311	0.458	35.315
MALFOR- MATION	51	2362	0.779	36.094
OTHERS	4182	6544	63.906	100.000

Table 9b. Final version of frequency and percentage distributions for cause-specific deaths for both sexes in Nevada during the time interval between 1970 to 1974. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

GR	FREQUENCY	CLM FREQ	PERCENT	CUM PERCENT
CANCER	2076	2076	11.010	11.010
RESPIRA- TORY	522	2598	2.768	13.779
HEART	731	3329	3.877	17.656
HYPER- TENSION	54	3383	0.286	17.942
CVA	1843	5226	9.775	27.717
ATHERDSCLEROSIS	2	5228	0.011	27.727
DTHER VESSELS	232	5460	1.230	28.958
REPRO DUCTION	217	5677	1, 151	30.109
MALFOR- MATION	132	5809	0.700	30.809
OTHERS	13046	18855	69.191	100.000

Table 9c. Final version of frequency and percentage distributions for cause-specific deaths for both sexes in Nevada during the time interval between 1975 to 1979. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

GR	FREQUENCY	CUM FREQ	PERCENT	CUM PERCENT
CANCER	2743	2743	11.413	11.413
RESPIRA- TORY	580	3323	2.413	13.826
HEART	1804	5127	7.506	21.332
HYPER- TENSION	23	5150	0.096	21,428
CVA	1947	7097	8, 101	29.529
DTHER VESSELS	277	7374	1.163	30.682
REPRO DUCTION	39	7413	0.162	30.844
MALFOR- MATION	175	7588	0.728	31.572
OTHERS	16446	24034	68.428	100.000

Table 9d. Final version of frequency and percentage distributions for cause-specific deaths for both sexes in Nevada during the time interval between 1980 to 1983. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

GR	FREQUENCY	CUM FREQ	PERCENT	CUM PERCENT
CANCER RESPIRA- TORY HEART CVA OTHER VESSELS MALFOR- MATION	2825 1111 5203 1534 228 180	2825 3936 9139 10673 10901 11081	11.551 4.543 21.275 6.272 0.932 0.736	11.551 16.094 37.369 43.642 44.574 45.310
DTHERS	13375	24456	54.690	100.000

Table 9e. Final version of frequency and percentage distributions for cause-specific deaths for males in Nevada during the time interval between 1968 to 1969. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

GR	FREQUENCY	CUM FREQ	PERCENT	CUM PERCENT
CANCER	317	317	7.735	7.735
RESPIRA- TORY	132	449	3.221	10.957
HEART	607	1056	14.812	25.769
HYPER- TENSION	11	1067	0.268	26.037
CVA	202	1269	4.929	30.966
ATHERDSCLEROSIS	1	1270	0.024	30.991
DIHER VESSELS	58	1328	1.415	32.406
STRESS/ EMOTION	1	1329	0.024	32.430
REPRO DUCTION	19	1348	0.464	32.894
MALFOR - MATION	26	1374	0.634	33.529
DTHERS	2724	4098	66.471	100.000

Table 9f. Final version of frequency and percentage distributions for cause-specific deaths for males in Nevada during the time interval between 1970 to 1974. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

GR	FREQUENCY	CUM FREQ	PERCENT	CUM PERCENT
CANCER	2076	2076	11.010	11.010
RESPIRA- TORY	522	2598	2.768	13.779
HEART	731	3329	3.877	17.656
HYPER- TENSION	54	3383	0.286	17.942
CVA	1843	5226	9.775	27.717
ATHEROSCLEROSIS	2	5228	0.011	27.727
OTHER VESSELS	232	5460	1.230	28.958
REPRO DUCTION	217	5677	1.151	30.109
MALFOR- MATION	132	58091	0.700	30.809
OTHERS	13046	18855	69, 191	100.000

Table 9g. Final version of frequency and percentage distributions for cause-specific deaths for males in Nevada during the time interval between 1975 to 1979. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

GR	FREQUENCY	CUM FREQ	PERCENT	CUM PERCENT
CANCER	2743	2743	11.413	11.413
RESPIRA- TORY	580	3323	2.413	13.826
HEART	1804	5127	7.506	21.332
HYPER- TENSION	23	5150	0.096	21.428
CVA	1947	7097	8.101	29.529
OTHER VESSELS	277	7374	1.153	30.682
REPRO DUCTION	39	7413	0.162	30.844
MALFOR- MATION	175	7588	0.728	31.572
OTHERS	16446	24034	68.428	100.000

Table 9h. Final version of frequency and percentage distributions for cause-specific deaths for males in Nevada during the time interval between 1980 to 1983. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

GR	FREQUENCY	CUM FRED	PERCENT	CUM PERCENT
CANCER	2825	2825	11.551	11.551
RESPIRA- TORY	1111	3936	4.543	16.094
HEART	5203	9139	21.275	37.369
CVA	1534	10673	6.272	43.642
OTHER VESSELS	228	10901	0.932	44.574
MALFOR- MATION	180	11081	0.736	45.310
OTHERS	13375	24456	54,690	100.000

<u>Table 9i</u>. Final version of frequency and percentage distributions for cause-specific deaths for females in Nevada during the time interval between 1968 to 1969. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

GR	FREQUENCY	CUM FREQ	PERCENT	CUM PERCENT
CANCER	341	341	13.981	13.981
RESPIRA- TORY	67	408	2.747	16.728
HEART	304	712	12.464	29.192
HYPER- TENSION	7	719	0.287	29.479
CVA	185	904	7.585	37.064
OTHER VESSELS	45	949	1.845	38.909
REPRO DUCTION	11	960	0.451	39.360
MALFOR- MATION	25	985	1.025	40.385
OTHERS	1454	2439	59.615	100.000

Table 9j. Final version of frequency and percentage distributions for cause-specific deaths for females in Nevada during the time interval between 1970 to 1974. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

GR	FREQUENCY	CUM FREO	PERCENT	CUM PERCENT
CANCER	2076	2076	11.010	11.010
RESPIRA- TORY	522	2598	2.768	13.779
HEART	731	3329	3.877	17.656
HYPER- TENSION	54	3383	0.286	17.942
CVA	1843	5226	9.775	27.717
ATHEROSCLEROSIS	2	5228	0.011	27.727
DTHER VESSELS	232	5460	1.230	28.958
REPRO DUCTION	217	5677	1.151	30 . 109
MALFOR- MATION	132	5809	0.700	30 809
DTHERS	13046	18855	69.191	100 000

Table 9k. Final version of frequency and percentage distributions for cause-specific deaths for females in Nevada during the time interval between 1975 to 1979. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

GR	FREQUENCY	CUM FRED	PERCENT	CUM PERCENT
CANCER	2743	2743	11,413	11.413
RESPIRA- TORY	580	3323	. 2.413	13.826
HEART	1804	5127	7.506	21.332
HYPER- TENSION	23	5150	0.096	21.428
CVA	1947	7097	8,101	29.529
OTHER VESSELS	277	7374	1.153	30.682
REPRO DUCTION	39	7413	0.162	30.844
MALFOR- MATION	175	7588	0.728	31.572
OTHERS	16446	24034	68.428	100.000

<u>Table 91.</u> Final version of frequency and percentage distributions for cause-specific deaths for females in Nevada during the time interval between 1980 to 1983. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

GR .	FREQUENCY	CUM FRED	PERCENT	CUM PERCENT
CANCER	2825	2825	11.551	11.551
RESPIRA- TORY	1111	3936	4.543	16.094
HEART	5203	9139	21.275	37.369
CVA	1534	10673	6 272	43.642
OTHER VESSELS	228	10901	0.932	44.574
MALFOR- MATION	180	11081	0.736	45 310
OTHERS	13375	24456	54.690	100.000

Table 10a. Frequency and percentage distributions for age-specific deaths for both sexes in Nevada during the time interval between 1968 to 1969. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

NAGE		FREQUENCY	CUM FREQ	PERCENT	CUM PERCENT
		354	_		
UNDER 5		440	440	7.108	7.108
5-14	YEARS	92	532	1.486	8.595
15-24	YEARS	184	716	2.973	11.567
25-44	YEARS	550	1266	8.885	20.452
45-54	YEARS	713	1979	11.519	31.971
55-64	YEARS	1109	3088	17.916	49.887
65 AND	OVER	3097	6165	50.032	99.919
UNKNOWN	0.5.	5	6190	0.081	100.000

Table 10b. Frequency and percentage distributions for age-specific deaths for both sexes in Nevada during the time interval between 1970 to 1974. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

NAGE		FREQUENCY	CUM FREQ	PERCENT	CUM PERCENT
		900			
UNDER 5		1037	1037	5.776	5.776
5-14	YEARS	208	1245	1.158	6.934
15-24	YEARS	620	1865	3.453	10.387
25-44	YEARS	1516	3381	8.443	18.830
45-54	YEARS	1926	5307	10.727	29.557
55-64	YEARS	3270	8577	18.212	47.769
65 AND	OVER	9341	17918	52.025	99.794
UNKNOWN		37	17955	0.206	100.000

Table 10c. Frequency and percentage distributions for age-specific deaths for both sexes in Nevada during the time interval between 1975 to 1979. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

NAGE		FREQUENCY	CUM FREQ	PERCENT	CUM PERCENT
		1107			
UNDER 5		842	842	3.673	3.673
5-14	YEARS	206	1048	0.899	4.571
15-24	YEARS	916	1964	3.995	8.566
25-44	YEARS	1994	3958	8.697	17.263
45-54	YEARS	2166	6124	9.447	26.711
55-64	YEARS	4205	10329	18.341	45.052
65 AND	OVER	12570	22899	54.826	99.878
UNKNOWN		28	22927	0.122	100.000

Table 10d. Frequency and percentage distributions for age-specific deaths for both sexes in Nevada during the time interval between 1980 to 1983. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

NAGE		FREQUENCY	CUM FREQ	PERCENT	CUM PERCENT
UNDER 5		1093 729	729	3.120	3.120
5-14	YEARS	155	884	0.663	3.784
15-24 25-44	YEARS YEARS	799 2122	1683 3805	3.420 9.083	7.204 16.286
45-54	YEARS	1925	5730	8.240	24.526 41.733
55-64 65 AND	YEARS DVER	402 <i>0</i> 13573	9750 23323	17.207 58.096	99.829
UNKNOWN		40	23363	0.171	100.000

Table 10e. Frequency and percentage distributions for age-specific deaths for males in Nevada during the time interval between 1968 to 1969. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

NAGE		FREQUENCY	CUM FREO	PERCENT	CUM PERCENT
		250			
UNDER 5		271	271	7.043	7.043
5-14	YEARS	60	331	1.559	8.602
		134	465	3.482	12.084
15-24	YEARS			8.966	21.050
25-44	YEARS	345	810		32.666
45-54	YEARS	447	1257	11.616	
55-64	YEARS	748	2005	19.439	52.105
	OVER	1839	3844	47.791	99.896
65 AND	UVER	4	3848	0.104	100.000

Table 10f. Frequency and percentage distributions for age-specific deaths for males in Nevada during the time interval between 1970 to 1974. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

NÄGE		FREQUENCY	CUM FREO	PERCENT	CUM PERCENT
		593			
UNDER 5		602	602	5.496	5.496
5-14	YEARS	119	721	1.086	6.582
15-24	YEARS	455	1176	4.154	10.736
25-44	YEARS	977	2153	8.919	19.655
45-54	YEARS	1196	3349	10.918	30.573
55-64	YEARS	2145	5494	19.582	50.155
65 AND	OVER	5438	10932	49.644	99.799
UNKNOWN	OVEN	22	10954	0.201	100.000

Table 10g. Frequency and percentage distributions for age-specific deaths for males in Nevada during the time interval between 1975 to 1979. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

NAGE		FREQUENCY	CUM FREQ	PERCENT	CUM PERSENT
		715			
UNDER 5		484	484	3.450	3 450
5-14	YEARS	132	616	0.941	4.390
15-24	YEARS	666	1282	4.747	9.137
25-44	YEARS	1356	2638	9.664	18.801
45-54	YEARS	1399	4037	9.971	28.772
55-64	YEARS	2744	67B1	19.557	48.329
65 AND	OVER	7239	14020	51.593	99.922
UNKNOWN		11	14031	0.078	100.000

Table 10h. Frequency and percentage distributions for age-specific deaths for males in Nevada during the time interval between 1980 to 1983. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

NAGE		FREQUENCY	CUM FRED	PERCENT	CUM PERCENT
		695			
UNDER 5		424	424	3.081	3.081
5-14	YEARS	102	526	0.741	3.823
15-24	YEARS	576	1102	4.186	8.009
25-44	YEARS	1452	2554	10.552	18.561
45-54	YEARS	1221	3775	8.874	27.435
55-64	YEARS	2548	6323	18.517	45.952
65 AND	OVER	7419	13742	53.917	99.869
UNKNOWN		18	13760	0.131	100.000

Table 10i. Frequency and percentage distributions for age-specific deaths for females in Nevada during the time interval between 1968 to 1969. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

NAGE		FREQUENCY	CUM FRED	PERCENT	CUM PERCENT
		104			
UNDER 5		169	169	7.238	7.238
5-14	YEARS	32	201	1.370	8.608
15-24	YEARS	50	251	2.141	10.749
25-44	YEARS	205	456	8.779	19.529
45-54	YEARS	263	719	11.263	30.792
55-64	YEARS	360	1079	15.418	46.210
65 AND	OVER	1255	2334	53,747	99.957
UNKNOWN	002	1	2335	0.043	100.000

<u>Table 10j.</u> Frequency and percentage distributions for age-specific deaths for females in Nevada during the time interval between 1970 to 1974. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

NAGE		FREQUENCY	CUM FREO	PERCENT	CUM PERCENT
		307			
UNDER 5		435	435	6.213	6.213
5-14	YEARS	89	524	1.271	7.485
15-24	YEARS	165	689	2.357	9.841
25-44	YEARS	539	1228	7.699	17.540
45-54	YEARS	730	1958	10.427	27.967
55-64	YEARS	1125	3083	16.069	44.037
65 AND	DVER	3903	6986	55.749	99.786
UNKNOWN	UTER	15	7001	0.214	100.000

Table 10k. Frequency and percentage distributions for age-specific deaths for females in Nevada during the time interval between 1975 to 1979. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

NAGE		FREQUENCY	CUM FRED	PERCENT	CUM PERCENT
		392			
UNDER 5		358	350	4.026	4.026
5-14	YEARS	74	432	0.832	4. B58
15-24	YEARS	250	682	2.811	7.669
25-44	YEARS	638	1320	7.174	14.843
45-54	YEARS	767	2087	B.625	23.468
55-64	YEARS	1461	3548	16.429	39.897
65 AND	OVER	5329	8877	59.924	99.820
UNKNOWN		16	8893	0.180	100.000

<u>Table 101</u>. Frequency and percentage distributions for age-specific deaths for females in Nevada during the time interval between 1980 to 1983. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

NAGE		FREQUENCY	CUM FRED	PERCENT	CUM PERCENT
		398			
UNDER 5		303	303	3.157	3.157
5-14	YEARS	53	356	0.552	3.709
15-24	YEARS	223	579	2.323	6.033
25-44	YEARS	670	1249	6.981	13.013
45-54	YEARS	704	1953	7.335	20.348
55-64	YEARS	1472	3425	15.337	35.685
65 AND	OVER	6152	9577	64.097	99.781
UNKNOWN		21	9598	0.219	100.000

Table 11a. Frequency and percentage distributions for race-specific deaths for both sexes in Nevada during the time interval between 1968 to 1969. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

RACE	FREQUENCY	CUM FREQ	PERCENT	CUM PERCENT
WHITE	6066	6066	92.696	92.696
BLACK	312	6378	4.768	97.463
INDIAN	136	6514	2.078	99.542
OTHER & UNKNOWN	30	6544	0.458	100.000

Table 11b. Frequency and percentage distributions for race-specific deaths for both sexes in Nevada during the time interval between 1970 to 1974. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

RACE	FREQUENCY	CUM FREQ	PERCENT	CUM PERCENT
WHITE	17394	17394	92.251	92.251
BLACK	1018	18412	5.399	97.650
INDIAN	357	18769	1.893	99.544
OTHER & UNKNOWN	86	18855	0.456	100.000

Table 11c. Frequency and percentage distributions for race-specific deaths for both sexes in Nevada during the time interval between 1975 to 1979. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

RACE	FREQUENCY	CUM FREQ	PERCENT	CUM PERCENT
WHITE	22167	22167	92.232	92.232
BLACK	1256	23423	5.226	97.458
INDIAN	472	23895	1.964	99.422
OTHER & UNKNOWN	139	24034	0.578	100.000

Table 11d. Frequency and percentage distributions for race-specific deaths for both sexes in Nevada during the time interval between 1980 to 1983. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

RACE	FREQUENCY	CUM FREQ	PERCENT	CUM PERCENT
WHITE	22674	22674	92.713	92.713
BLACK	1187	23861	4.854	97.567
INDIAN	399	24260	1.632	99.199
OTHER & UNKNOWN	196	24456	0.801	100.000

Table 11e. Frequency and percentage distributions for race-specific deaths for males in Nevada during the time interval between 1968 to 1969. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

RACE	FREQUENCY	CUM FRED	PERCENT	CUM PERCENT
WHITE	3811	2811	92,997	92.997
BLACK	185	3996	4.514	97.511
INDIAN	80	4076	1.952	99.463
OTHER & UNKNOWN	22	4098	0.537	100,000

<u>Table 11f.</u> Frequency and percentage distributions for race-specific deaths for males in Nevada during the time interval between 1970 to 1974. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

RACE	FREQUENCY	CUM FREO	PERCENT	CUM PERCENT
WHITE	10648	10648	92.214	92.214
BLACK	617	11265	5.343	97.558
INDIAN	220	11485	1.905	99.463
OTHER & UNKNOWN	62	11547	0.537	100.000

Table 11g. Frequency and percentage distributions for race-specific deaths for males in Nevada during the time interval between 1975 to 1979. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

RACE	FREQUENCY	CUM FREO	PERCENT	CUM PERCENT
WHITE	13576	13576	92.066	92.066
BLACK	796	14372	5.398	97.464
INDIAN	284	14656	1.926	99.390
OTHER & UNKNOWN	90	14746	0.610	100.000

<u>Table 11h.</u> Frequency and percentage distributions for race-specific deaths for males in Nevada during the time interval between 1980 to 1983. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

RACE	FREQUENCY	CUM FREQ	PERCENT	CUM PERCENT
WHITE	13339	13339	92.279	92.279
BLACK	745	14084	5.154	97.433
INDIAN	250	14334	1.730	99.163
OTHER & UNKNOWN	121	14455	0.837	100.000

Table 11i. Frequency and percentage distributions for race-specific deaths for females in Nevada during the time interval between 1968 to 1969. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

RACE	FREQUENCY	CUM FRED	PERCENT	CUM PERCENT
WHITE BLACK INDIAN	2248 127 56	2248 2375 2431	92.169 5.207 2.296	\$2.169 97.376 99.672
OTHER & UNKNOWN	8	2439	0.328	100.000

Table 11j. Frequency and percentage distributions for race-specific deaths for females in Nevada during the time interval between 1970 to 1974. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

RACE	FREQUENCY	CUM FREQ	PERCENT	CUM PERCENT
WHITE	6746	6746	92.310	92.310
BLACK	401	7147	5.487	97.797
INDIAN	137	7284	1.875	99.672
OTHER & UNKNOWN	24	7308	0.328	100.000

<u>Table 11k.</u> Frequency and percentage distributions for race-specific deaths for females in Nevada during the time interval between 1975 to 1979. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

RACE	FREQUENCY	CUM FREQ	PERCENT	CUM PERCENT
WHITE	8591	8591	92.526	92.526
BLACK	459	9050	4.943	97.469
INDIAN	188	9238	2.025	99.494
OTHER & UNKNOWN	47	9285	0.506	100.000

<u>Table 111.</u> Frequency and percentage distributions for race-specific deaths for females in Nevada during the time interval between 1980 to 1983. Similar data exist for each county. (Cause of death determined by ICD-8 or ICD-9 codes.)

RACE	FREQUENCY	CUM FREQ	PERCENT	CUM PERCENT
WHITE	9331	9331	93.347	93.347
BLACK	442	9773	4.422	97.769
INDIAN	'49	9922	1.491	99.260
OTHER & UNKNOWN	74	9996	0.740	100.000

Table 12
Sound Level Exposure Per Township - Average Between 1969-1983

		mean Day-Night C-weighted	
Risk Area	Tounship	average sound level (dB)	Reni
High Exposur		i I	
militir cyboson	Cal iente	52.92	1
	Nospe	49.17	2
	Alamo	48.69	3
	Panaca	47.11	4
	Lake	43.15	5
		43.13	6
	Beatty	41.73	7
	•	1 40.77	8
	Tonopah Union	40.60 40.07	9 10
		39.74	11
		38.22	12
		36.45	13
		36.61	14
	Sperks	36.54	15
	Reno	36.36	16
		36.32	17
		36.30	18
	Wadsworth	(36.25 	19
Medium Exposi			
		35.99	20
		[35.92 35.77	21 22
	-	35.51	23
		35.08	24
		34.59	25
		33.87	26
	Paradise Valley	33.76	27
	Searchlight	33.54	28
		33.45	29
		33.15	30
	Bel san		31
	N. Las Vegas Pahrusp		32
	Pahruap Kawthorne		33 34
	Gebbs	- '	35
	Cerlin		36
	Hine		37
	Meton Valley	31.15	38
	Henderson	31.07	39
low Exposure:	ĺ		
	Jackpot		40
	Overton		41
	Between		42
	East Fork		43
	Dayton I		45
	Round Ht.	28.42	46
	Schurz	27.64	7
	Lund	27.39	48
	Smith Valley	27.39	49
	Mesquite j	26.29	50
	Jarbidge	26.20	51
	Virginia	26.19	52
	Canal	25.41	53
	Bunkervitte Carson City	24.81	54
	Logan (24.46	55
	,	24.02	56
	Verdi i	21.55	57

Table 13
Crude Death Rate of Residents by Township
Nevada

	Township	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	l Mean	\$.
	Carson City		. 0 78	2 7 69	S A 77	A 100	A 780	5 527	5 asc		7 129			A 117	7 13	5 9.637	8 278		1 28
(2)	-															7 8.560		9.608	-
(3)	Burkerville				0 6.09											2 6.924		•	1.02
	Goodspr Ings	2.339	5.76	9 5.79	4 6.09	6.065										6.924		•	1.56
	Henderson	5.732	5.89	2 6.29	5 6.19	6.315	6.457	6.381	6.319	6.786	6.738	6.352	6.396	6.939	6.649	6.980	6.812	6.452	0.34
	Los Vegas	6.460	5.92	4 6.24	7 6.16	6.227	6.454	6.367	6.319	6.776	6.724	6.296	6.366	6.895	6.607	6.961	6.764	6.472	0.28
	Logan	8.000										1.089				0.000		0.874	1.67
	Mesquite					6.088										6.924		•	1.03
	Noeps					6.068										6.924		1 6.149	1.03
	Relson	7.403														8.068		•	1.06
	M. Las Vegas					6.214										6.958			0.46
	Overton				0.164							4.223				0.050		1.787	
,,,	Searchlight East Fork				0.000											0.000		1.990	
,-,	Tahoe															4.948		5.556	
/R\	Carlin				7.200											4.949		5.556	
.,,	East line															6.871		8.277	
	Elko															7.109		•	1.608
	Jackpot			. 7.001												7.011		8.351	
	Jarbidge	<u> </u>	7 11	1 A 024												6.871		6.605	
	Mt. Elty	0.000			0.000	7.675										6.871		8.672	
	Tecom						0.000	4 410	7 140	10 (50	9.501	4,470	2.543	3,737	4.836	6.871	1.418	2.452	
	Well's	8.945	7.310	8.890	7 177	7.675	0 181	4 430	7.107	10.438	0.430	9.3/3	8.777	0.349	8.876	6.871			1.20
6)	Esmeralda	9,158	10.695	11.129	8.333	14.000	11 744	10 000	11 420	11 477	12 130	9.300	5.///	0.532	8.8/0	14,444		8.080	1.19
7)	Beouwe	8.607	12.034	4.988	9,999	7.778	4 928	10.000	8 187	A 211	8 100	V.03V	7.001	4 470	4 804	7.143		7.053	
	Eureko	19.863	12.036	10.969	10.001	7.778	11.323	10.000	8.181	R 212	8 105	5 487	# 210	4.478	4.804	7,143	3.521	8.907	
8)	Gold Run	9.988	11,176	9.722	12.379	13.807	8.927	9.696	9.364	10.304	9.151	7 408	7 547	7 432	7 400	6.936		•	2.05
	Acternit	9,995	11,176	9.726	12.379	13.807	8.927	9.704	9.380	10.306	9.151	7.408	7.547				5.498	•	
	Peredise Vali	ey 9.995	11,176	9.718	12.379	13.807	8.927	9.704	11.970	10.309	9.152	7.408	7.547	7.626	7.400	6.936	5.497	9.353	
	Union	9.996	11.170	9.726	12,382	13.810	8.928	9.706	9.520	10.305	9.154	7,411	7.550	7.632	7.501	6.937	5.499	9.202	2.060
9)	Argenta	8.890	7.782	5.773	11.153	8.696	7,723	7.440	6.667	4.929	9.232	5.656	5.698	6.869	7.256	4,753	4.505		1.780
	Austin															4.753		8.859	4.160
10)	Alamo															6.004		8,402	2.713
	Cal lente																		3.644
	Paneca																5.398	8.673	2.80
	Plache															6,004		8.289	2.612
,,,	Conel															9.431		8.809	0.940
	Deyton Manage Makita															9.411			0.928
	Meson Velley																5.392	•	0.932
121	Smith Valley Hawthorne															9,411			0.928
٠,	Hine																11.594	•	1.722
	Schurz					10.153										8.272			2.536
3)	Beatty															8.266 6.847		9.462	
	Gabbs															6.847			2.297
	Pahrump															6.847			2.144
	Round Mt.															6.847		f 9.265 I 8.968	
	Tanapeh															6.010		8.968 10.165	2.469
4)	Lake																	10.165 12.225	
5)	Virginia	26.814 1	11.494	17.266	12.857	15.714	3.621	6.667	10.000	8.547	13,500	9,426	16.794	7.004	3.817	6 471	8.000) 12.225 11.817	
	Gerlach	7.692	6.044	8.493	8.520	9.326	8.468	8.523	7.796	6.985	8.773	8.544	8.015	7.946	7.720	7 021	7.558	8.147	7.761 A 771
	Reno	8.796	8.144	7.976	7.804	8.515	7.606	7.784	8.089	8.296	8.094	7.818	7.456	7.237	7.150	7.044	A.856	7.792	0.13
	Sporks	8.454	7.304	8.126	8.040	8.636	7.896	8.040	7.897	8.574	8.273	7.961	7.567	7.458	7.202	7 288	7.084	7.881	n 404
	Verdi	7.692	6.044	8.903	8.520	9.326	8.468	8.586	7.704	9.290	8,491	8.544	7.901	7.904	7.720	7 021	7 558	8.175	0.470 N 740
	Vadsworth	7.692	6.044	8.955	8.520	9.326	8.468	8.551	7.766	0.530	8.773	8.544	7.98A	7.017	7.547	7 021	7.448	8.127	W. 104
7)	Saker	10.932	9.661	8.876	9,199	6.893	6.998	8.400	8,023	9.676	10.279	10.137	10.342 1	0.417 1	2.1AA	10.414	6.00T	9.470	7.74C
	Ely	8.220	8.334	8.867	9.200	6.893	6.999	8.400	8.020	9.698	10.273	10.154	10.348	0.4M	2.101	10.418	0.00n	9.220	1.150
	Lund	10.932	8.733	8.857	9, 199	6.893	6.998	8.400	8.019	9.694	0.268	10.166	10.342 1	0.402 1	2.188	10.414	9.084	9.412	
_	Hevada State	4 222								• • • • • • • • • • • • • • • • • • • •									
	U.S.	0.722 0.704	0.616 0 cm	0.445	6.312	8.415	U. 266	8.165	B. 176	U.558	E.592	8.230	8.128	F.568	8.132	8.162 8.500	7.932		
		7.700	y. 300	7.300	9. WIII	w 4000	u wan	- 100	= =00									9,580 (

S.D. # Standard Deviation
Rates are per 1,000 estimated population.
() = Reflect the county codes in Table 2.
Data of U.S. before 1980 refer to 89 in Bibliography.
Data of U.S. after 1980 refer to 810 in Bibliography.

Table 14
CRUDE DEATH RATE OF MEVADA RESIDENTS BY COUNTY
NEVADA: 1968-1963

}	County	8861	1969	1970	1971	1972	1973	1974	575	1976	1977	1978	1979	1980	1961	1982	1983	Res	5.D.
ţ																			
3	Carson City	8.946	8.782	7.693	6.776	6.100	6.789	5.527	5.889	6.310	7.325	9.217	_	8.557	7.135		8.278	7.561	1.232
8	Charch i L	10.824	7.417	10.273	9.279	8.174	8.102	8.403	10.167	10.674	11.224	9.435		10.275	10.897	_	10.410	809.0	1.133
ĉ	Clark	6.110	5.888	992.9	6.154	6.213	6.455	6:365	6.207	6.773	6.747	6.345		6.899	6.601		6.740	877-9	8
3	Douglas	5.493	98.9	5.812	7.200	5 .3	4.089	4.90	4.685	6.770	5.668	6.615	5.592	6.488	4.325	676.4	079.7	5.556	090
3	Elko	8.225	7.112	8.304	6.603	7.069	8.468	6.183	8.068	10.163	8.444	8.958		8.748	8.606		5.391	7.859	1.182
9	Esmeralda	9.158	10.695	11.129	8.333	14.000	11.364	10.000	11.429	11.673	12.329	9.639	_	14.157	15.361		9.783	11.598	766
8	Eureka	15.258	12.035	8.439	10.000	7.778	8.789	10.000	8.182	8.212	8.105	3.687	_	6.678	708.7		3.521	8.178	2.838
@		9.93	11.172	9.725	12.381	13.810	8.928	9.705	9.577	10.305	9.153	7.410	_	7.632	7.501		2.4%	9.202	2.061
3	Lander	11.016	8.413	6.752	11.154	8.696	7.73	8.214	6.667	4.929	9.012	5.656	_	6.869	7.257		502	7.332	1.966
Ê	(10) Lincoln	8.141	13.037	2.866	13.0%2	12.607	8.981	007.7	11.109	11.772	7.014	9.840	_	10.182	7.150		5.605	8.860	2.787
Ê	Lyon	6.971	9.70%	8.271	8.803	9.996	8.658	8.731	7.3%	8.120	8.980	9.774		10.299	7.756		8.374	8.806	0.933
C2	Mineral	780	4.201	3.856	6.745	5.077	5.081	4.521	3,611	3.743	5.184	3.897		4.570	5.75		5.580	4.675	0.832
E	Nye	10.046	9.826	12.148	9.244	8.504	7.974	11.935	6.6%	6.887	9.347	8.242	_	11.455	11.126	_	806.9	9.466	1.764
£	Pershing	12.859	13.931	13.483	14.231	13.600	18.367	10.800	12.593	12.487	11.542	12.388		13.204	8.494		10.209	12.225	2.539
35	Storey	26.814	11.494	17.266	12.857	15.714	13.621	6.667	10.000	8.547	13.599	9.456	_	7.984	3.817		8.000	11.817	5.421
160	Vashoe	8.697	7.912	8.054	7.872	8.606	7.691	7.860	8.034	8.379	8.150	7.868	_	7.308	7.203		6.931	7.822	267.0
5	White Pine	8.358	8.367	8.867	9.200	6.7%	6.8%	8.400	8.020	869.6	10.273	10.036	_	10.408	12.312	_	9.089	9.218	1.384
	Nevada State 8 723	, CC	216	• * * •		,	ì		į						į				
	U.S.	200	9.50	9 6	5.516	6.675	93.6	2. S	8.176	8.558	8.592	8.230	8.128	8.568	8.132	8.162	7.932	8.314	0.208
	i	3	3	¥.58	¥.500	7.400	. 50G	9.	8.800	2.800	8.600	8.700	8.500	8.800	9.600	8 .500	99.60	9.580	0.397
																	•		

S.D. = Standard Deviation
Rates are per 1,000 estimated population.
Data of U.S. before 1980 refer to #9 in Bibliography.
Data of U.S. after 1980 refer to #10 in Bibliography.

Table 15a. Cause-specific, but not age-adjusted, death rates per 100,000 for both sexes by county during the time interval between 1980 to 1983. Similiar data exist for previous time intervals (1968-1969, 1970-1974, and 1975-1979).

COUNTY	CANCER	RESPIRAT	HEART	HYPERTEN	CVA	ATHEROSC	VESSEL	cv_bis	STRESS	REPROD	MALFORM	OTHERS
STATE TOTAL	82.049	32	151, 116		44,554		6.6220		•		5.2279	388.464
ARSON CITY	107.447	36	224, 595		55.216		10,4453					405.913
HURCHILL	122.551	56.9604	288.254		81.125		17.2607				3.4521	433,244
LARK	77.772	ဓ္ဓ	152.891		41.789		5.2549				5.9555	370.542
OUGLAS	59.630	20	129,994	•	26.237	•	5.9630				5,9630	298.795
LKO	68.433	28.	182.926		48.692		5.2641	•		•	6,5801	393.488
SMERRALDA	58.720	58	352,319	•	117.440		58.7199	•			•	616.959
UREKA	56.958	37	208.847		18.986		18.9861			-	•	208 847
UMBOLDT	71.894	37	160.022		39.426		6.9575			-	9.2767	357, 151
ANDER	88,736	<u>.</u>	135,713		41.758						5.2198	281.867
INCOLN	79.27B	ဗ္ဗ	207.342	•	24.393		•					420.783
NOA	98.182	28.	209.906		52.477		20.3135			•		485.831
INERAL	139.648	5	167.578		47.879		11.9598				•	610.462
YE	61.230	4	160.466		48.562		14.7798	,			-	424 391
ERSHING	117.241	75	193, 103	•	75.862		20.6897		,		13, 7931	462.069
TOREY	91.954	45	168.582		45.977							306.513
ASHDE	85.731	33	108.478		44.394		7.2156				4.5250	421.072
HITE PINE	118.140	28	306,602	•	115.327						14 0642	464 433

for data Table 15b. Cause-specific, but not age-adjusted, death rates per 100,000 males by county during the time interval between 1980 to 1983. Similiar exist for previous time intervals (1968-1969, 1970-1974, and 1975-1979).

OTHERS	787.70	796.27	859.00	734.72	508.86	749.11	1160.22	387.19	657.05	520.58	847.98	962.73	1204.16	791.25	875.47	600.60	836.51	920.50
MALFORM	10.3316	•	6.8446	11.8088	11.7203	12.5269	•	•	17.0663	9.6404			•		26. 1335		8.989B	27.8940
REPROD															•	•	٠	
STRESS												•						
cv_bis	•													,	•		•	•
VESSEL	13.087	20.544	34.223	10.419	11.720	10.021	110.497	35, 199	12.800		,	40.254	23.611	27.556	39.200		14.335	
ATHEROSC		•	•			•					•		•	•		•		
CVA	88.048	108.589	160.849	82.860	51.569	92,699	220.994	35, 199	72.532	77.123	49,158	103.988	94.444	90.540	143.734	90.090	88.195	228.731
HYPERTEN	•				•	•		•										
HEART										_			_					608.089
RESPIRAT	63.769	71,903	112.936	60.632	39.849	95.118	110.497	70.398	68.265	28.921	61.448	57.026	102.314	90.540	143.734	90.090	66.571	55.788
CANCER	162.149	211.308	242.984	154.209	117.203	130.280	110.497	105, 597	132,264	163.887	159.774	194.959	275.460	114, 160	222, 135	180, 180	170,315	234.310
COUNTY	STATE TOTAL	CARSON CITY	CHURCHILL	CLARK	DOUGLAS	ELKO	ESMERRALDA	EUREKA	HUMBOLDT	LANDER	I INCOLU	LYON	MINERAL	AVE	PERSHING	STOREY	WASHDE	WHITE PINE

Table 15c. Cause-specific, but not age-adjusted, death rates per 100,000 for females by county during the time interval between 1980 to 1983. Similiar data exist for previous time intervals (1968-1969, 1970-1974, and 1975-1979).

COUNTY	CANCER	RESPIRAT	HEART	HYPERTEN	CVA	ATHEROSC	VESSEL	cv_bis	STRESS	REPROD	MALFORM	OTHERS
							200				10.5831	786.39
TE TOTAL	ARC DOR	65.32+	305, 912		90.192		13.400	•				1000
3			456 047		112 339		21,253					643.64
SON CITY	218.600	185.41	000	•			40				6,9650	874.11
OCHIII	247,257	114.922	581.578		103.01		34.643				010	747 55
	166 900	61 600	308 452		84,307		10.601	•			26.0.20	
K.	100.00	000	, ,		E2 413		12 139				12, 1392	326.84
GLAS	121.392	41.273	204.034	•	7. 7.	•					ACOR CT	928 87
	144, 152	60.987	385.330		102.570	•	680.		•	•		12 (8 70
	200	106 311	75.1 ABO		250.627		125.313			•		
EKKALUA	160.015		462.404		41 220		41,220					453 42
EXA	123.660	82.440	433.421	•	0 1 0		270				20, 3242	782,48
Ani bī	157,512	81.297	350, 592		86.378		13.243		•	•	0000	614 69
	100	24 140	105 Q50		91.064						0505.11	00.410
C.X	20.06	110			40 430				٠		-	835.25
COLN	157,366	60.525	411.572		074.04			•				980.76
	49B 202	58.094	423.743		105.936		8		•			9000
2			200		97.111		24.278	•				1430.10
ERAL	283.240	103.403	203.600	•			31 978					915.34
	132.064	104.741	346.099	•	104 . /41		0 10 10	•			2000	07R R.1
201720	746 284	160 654	408 938		160.654	•	43.815				607.67	
20110	70.00				02 807					•		675.96
REY	187.793	93.897	344. 288		00.00						- 0	847.85
JUH	172.623	67.473	218.427	•	89.390		670.4				6675	018 42
	1 1 1 1 1 1	1	100		220 000			•	•	•	700.07	

Table 16 COMPARISON BETWEEN DEATH RATES BY RISK AREA NEVADA: 1968-1983

Death Rate Fuelus			V	ANALYSIS OF VARIANCE WITHIN RISK AREA	VITHIN RISH	AREA			T-test betwe	T-test of Death Rates between Risk Areas	.
Death Rate P-Value P-V		LOW RISK AR	EA .	MEDIUM RISK	AREA	HIGH RISK A	KEA	ALL		(anjex.d)	
Near +/- 5.0, Near First P-Value Death Rate P-Value			_		<u> </u>				70	Medium	LOF
7.371 3.092 0.0000 7.853 2.812 0.0000 8.669 2.531 0.0000 0.0122 0.0004 0.0000 0.0024 0.0000 0.023 0.0000 0.024 0.0000 0.024 0.0000 0.024 0.0000 0.024 0.0000 0.024 0.0000 0.024 0.0000 0.024 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.025 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.		Death Rate	P-Value	Death Rate	P-Value	Death Rate	P-Value	P-value	\$:	*	\$
7.371 3.092 0.0000 7.853 2.812 0.0000 8.669 2.531 0.0000 0.0122 0.0004 0.0000 0.0122 0.0004 0.0003 0.0003 4.566 +/- 1.884 0.4213 4.067 +/- 0.094 0.0042 0.0042 0.0042 0.0042 0.0005 0.0024 0.0000 1.818 +/- 0.760 0.7457 2.244 +/- 0.691 0.0042 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	By Township:	Mean +/- S.D.		Mean +/- S.D.		Mean +/- S.D.			Edica.		ę E
4.657 4/- 1.360	Crude Death Rate		0.0000		0.0000		0.000	0.0122	0.0004	0.0000	0.0000
1,155 +1,156 0,0003 4,586 +1,1884 0,4213 4,067 +1,094 0,0042 0,0053 0,0055 0,0294 2,130 +1,189 0,0000 1,818 +1,0.740 0,7457 2,244 +1,0,691 0,0068 0,0065 0,0030 0,0067 3,159 +1,189 0,0000 1,818 +1,0.740 0,7457 2,244 +1,0,691 0,0069 0,0005 0,0000 4,067 +1,036 0,0020 1,818 +1,0.740 0,7457 2,244 +1,0,691 0,0069 0,0000 0,0007 4,067 +1,036 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0,0020 0	By County(age-adjusted):										
tremsion: 3.159 +/- 1.036	Tallovestoria:	0%2 1 -/+ 250.7	0.0003	4.586 +/- 1.884	2167 0	700 0 -/+ 290 7	0 0042	0 0410	0 04.25	0 0204	25
tenth 3.159 +/- 1.036 0.0000 3.227 +/- 1.052 0.1381 3.147 +/- 0.587 0.0001 0.622 +/- 0.057 0.623 +/- 0.057 0.032 +/- 0.057 0.0000 0.032 +/- 0.057 0.0000 0.032 +/- 0.075 0.0000 0.032 +/- 0.075 0.0000 0.022 +/- 0.075 0.0000 0.022 +/- 0.075 0.0000 0.022 +/- 0.075 0.0000 0.022 +/- 0.075 0.0000 0.022 +/- 0.075 0.0000 0.022 +/- 0.075 0.0000 0.022 +/- 0.075 0.0000 0.022 +/- 0.075 0.0000 0.022 +/- 0.075 0.0000 0.022 +/- 0.075 0.0000 0.022 +/- 0.075 0.0000 0.022 +/- 0.075 0.022 +/- 0.044 0.022 +/- 0.045 0.0000 0.022 +/- 0.045 0.0000 0.022 +/- 0.045 0.0000 0.022 +/- 0.045 0.0000 0.022 +/- 0.045 0.022 +/- 0.045 0.022 +/- 0.045 0.022 +/- 0.045 0.022 +/- 0.045 0.022 +/- 0.045 0.022 +/- 0.045 0.022 +/- 0.045 0.022 +/- 0.045 0.022 +/- 0.045 0.022 +/- 0.044 0.022 +/- 0.044 0.022 +/- 0.044 0.022 +/- 0.044 0.022 +/- 0.044 0.022 +/- 0.044 0.022 +/- 0.044 0.022 +/- 0.044 0.022 +/- 0.044	Femele	2.330 +/- 1.189	0.000	1.818 +/- 0.760	0.7457	2.244 +/- 0.691	0.0068	0.0065	0.0030	0.0067	0.5564
Coursility Cours	Both	3.159 +/- 1.036	0.000	3.227 +/- 1.052	0.1381		0.0001	0.8643	0.6829	0.5975	0.9310
1.022 +/- 0.046	lypertension:										
0.029 +/- 0.059	Male	0.022 +/- 0.048	0.0028	0.028 +/- 0.052	0.000	0.032 +/- 0.075	0.0691	0.6454	0.6252	0.7370	0.3%
1.935 +/- 0.046 0.0036 0.024 +/- 0.038 0.0000 0.027 +/- 0.044 0.0844 0.8974 0.7614 0.6427	Femal e	0.029 +/- 0.059	0.0037	0.020 +/- 0.027	0.000	0.023 +/- 0.039	0.000	0.5065	0.2569	0.6328	0.4110
1.933 +/- 0.764	Both	0.026 +/- 0.048	0.0036		0.000	÷	0.0884	0.8974	0.7614	0.6427	0.8878
telle 1.933 +/- 0.766	Cancer:										
loth 1.534 +/- 0.535 0.0000 0.858 +/- 0.439 0.0281 1.250 +/- 0.515 0.9368 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.00000 0.00000 0.00000 0.0000 0.0000 0	Male	1.933 +/- 0.764	0.000	1.381 +/- 0.579	0.1254	1.870 +/- 0.481	0.000	0.0000	0.000	0.000	0.5261
loth 1.634 +/- 0.595	Femal e	1.394 +/- 0.635	0.000	0.858 +/- 0.439	0.0281	1.250 +/- 0.515	0.9368	0.000	0.000	0.0001	0.1044
0.698 +/- 0.446	Both	1.634 +/- 0.595	0.000		0.0651		0.000	0.000	0.000	0.000	0.2331
0.698 +/- 0.446	CVA:	_									
0.578 +/- 0.300	Nate	974.0 -/+ 869.0	0.0857	0.840 +/- 0.697	0.1363	0.838 +/- 0.341	0.0194	0.1624	0.1270	0.9833	0.0765
0.628 +/- 0.199	Female	0.578 +/- 0.300	0.2082	0.760 +/- 0.800	0.0051	0.672 +/- 0.330	0.0031	0.1438	0.0503	0.2990	0.2322
4.859 +/- 1.599	Both	0.628 +/- 0.199	0.3153	÷	0.0290		0.8994	970.0	0.0638	0.8796	0.0182
4.859 +/- 1.599	Other Diseases:										
2.794 +/- 1.110	- Male	4.859 +/- 1.599	0.0002	5.501 +/- 2.294	0.0039	5.189 +/- 1.547	0.000	0.1709	0.0617	0.3193	0.2562
3.773 +/- 1.268	Female	2.7% +/- 1.110	0.000	2.457 +/- 0.702	0.2365	2.655 +/- 0.848	0.000	0.1581	0.0553	0.2156	0.3514
11.569 +/- 3.180	l Both		0.0000	÷	0.0125		0.0000	0.6708	0.3911	0.7446	0.5094
11.569 +/- 3.180 0.0000 12.336 +/- 3.230 0.0745 11.997 +/- 1.991 0.0000 0.3345 0.1442 0.4784	All Diseases:										
le 7.126 +/- 2.169 0.0000 5.913 +/- 1.023 0.0113 6.845 +/- 0.959 0.0002 0.0001 0.0000 0.0003 9.221 +/- 2.398 0.0000 9.114 +/- 1.640 0.0465 9.377 +/- 1.355 0.0000 0.6862 0.7580 0.4064	- Male	11.569 +/- 3.180	0.0000	12.336 +/- 3.230	0.0745	11.997 +/- 1.991	0.000	0.3345	0.1442	0.4784	0.3370
9.221 +/- 2.398 0.0000 9.114 +/- 1.640 0.0465 9.377 +/- 1.355 0.0000 0.6862 0.7580 0.4064	Female	7.126 +/- 2.169	0.000	5.913 +/- 1.023	0.0113	6.845 +/- 0.959	0.0002	0.0001	0.000	0.0003	0.2367
	Both		0.000	9.114 +/- 1.640	0.0465		0.0000	0.6862	0.7580	0.4064	0.5962

Rates are per 1000 estimated population.

Table 17
AGE-ADJUSTED DEATH RATES OF ALL CAUSES IN MEVADA RESIDENTS

(2) Churchill 10.6429 6.2339 8.6337 10.3197 7.2720 8.9338 10.5578 (3) Clark 11.3280 7.5976 6.9032 8.5953 6.1512 7.4745 8.6952 (4) Lander 11.3280 7.5976 9.7248 12.572 6.4646 9.8977 10.2578 (4) Lander 11.3280 7.5976 9.4057 10.3197 7.2720 8.9377 10.5574 (9) Lander 11.3280 7.5976 9.7248 10.3134 7.5752 10.5012 11.6574 (9) Lander 11.3280 7.5976 9.4057 10.3197 7.2720 8.9977 10.2569 (13) liye 9.7506 8.6126 9.4657 7.9132 6.4667 10.1037 5.6931 8.1072 10.5465 (13) liye 9.7506 8.6126 9.4657 7.1512 8.3462 9.7130 6.7045 8.3577 11.5269 7.029 9.3507 11.5269 7.029 9.3507 11.5726 8.5469 7.11172 8.2540 9.4057 11.1527 11.2728 9.5056 11.1207 7.0229 9.3507 11.5728 11.5728 7.0059 11.1207 7.0229 9.3507 11.5728 9.5050 11.1207 7.0229 9.3507 11.5728 9.5050 11.1207 7.0229 9.3507 11.5728 9.5050 11.1207 7.0229 9.3507 11.5728 9.5050 11.1207 7.0229 9.3507 11.5728 9.5050 11.1207 7.0229 9.3507 11.5728 9.5050 11.1207 7.0229 9.3507 11.5728 9.5050 11.1207 7.0229 9.3507 11.5728 9.5050 11.1207 7.0229 9.3507 11.5728 9.5050 11.1207 7.0229 9.3507 11.5728 9.5050 11.1207 7.0229 9.3507 11.5728 9.5050 11.1207 7.0229 0.9220 1.4433 7.2029 9.3507 11.5728 7.0050 11.5728 7.0050 11.5728 9.5050 11.4433 7.2029 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.0229 7.			
Churchill 10.6429 6.2539 8.6357 10.3197 7.2720 8.9538 clark Lander 13.4051 6.5266 6.9032 8.5953 6.1512 7.4745 lumboldt 11.3280 7.5976 9.7248 12.6702 7.5542 10.5012 7.4745 lumboldt 11.3280 7.5976 9.7248 12.6702 7.5542 10.5012 7.4745 11.6201 9.7566 8.6588 10.3134 12.5732 6.4466 9.8977 10.1017 5.6931 8.1072 10.1017 5.6931 8.1072 10.1017 5.6931 8.1072 10.1017 5.6931 8.1072 10.1017 5.6931 8.1072 10.1017 5.6931 8.1072 10.1017 5.6931 8.1072 10.1017 5.6931 8.1072 10.1017 5.6931 8.1072 10.1017 5.6931 8.1072 10.1017 5.6931 8.2032 8.5691 11.100 7.0829 9.3507 12.5211 1.3767 1.2015 2.0228 0.9282 1.4433 10.706 6.1322 7.6934 8.6270 6.2740 8.0697 10.1017 5.029 10.5012 11.2758 5.2693 8.5894 9.9631 6.3646 8.3643 10.7076 6.1332 7.6934 8.6270 6.2740 8.0697 11.6931 11.2758 5.2033 8.5894 9.9231 6.3646 8.3643 11.2759 5.6009 11.2759 5.4201 11.2513 7.4542 12.0581 8.7297 12.373 9.0746 10.6911 9.6520 6.4240 8.0313 10.492 11.3374 6.6731 8.2837 9.8431 7.4788 8.7999 10.8007 11.3374 6.6731 8.2837 9.8431 7.4788 8.7999 10.8007 11.3374 6.5731 11.3589 7.9589 9.7929 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007 10.8007	PEMALE	BOTH MALE FEMALE	BOTH
Clark 8.3670 5.2676 6.9032 8.5953 6.1512 7.4745 liumboldt 11.3280 7.5976 9.7248 12.6702 7.5542 10.5012 1.4051 6.6588 10.3134 12.5773 6.1512 7.4745 11.5701 9.9037 9.1598 9.6086 10.1037 5.6931 8.1072 1.5012 11.0010 9.9037 9.1598 9.6086 10.1037 5.6931 8.1072 1.5012 11.0010 9.9037 9.1598 9.6086 10.1037 5.6931 8.1072 1.5012 11.5012 11.5012 11.5012 11.5012 11.5013 11.5013 11.5013 11.502 11.502 11.502 11.5013 11.5013 11.502 11.502 11.502 11.502 11.5011 9.2926 11.1020 7.0829 9.3507 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013 11.2013			
Clark 8.3670 5.2676 6.9032 8.5953 6.1512 7.4745 Humboldt 11.3280 7.5976 9.7248 12.6702 7.5542 10.5012 Lincoln 9.9037 9.1596 9.4457 9.8124 7.9115 9.8977 J Lincoln 9.9037 9.1596 9.4457 9.8124 7.9115 9.8977 J Hye 9.7506 8.6126 9.4457 9.8124 7.9115 9.1828 J Hean 10.7288 7.1519 9.2926 11.1279 8.7597 12.3211 J Liman Risk Area: Etko 1.5211 1.3767 1.2015 2.0228 0.9282 1.4433 Eureka 10.7288 7.5994 8.5894 9.9651 6.3468 1.4433 Eureka 10.7076 4.1332 7.6924 8.6270 6.2740 8.3663 Eureka 10.7076 4.1332 7.6924 8.6270 6.2740 8.0597 Jahite Pine 8.7441 5.3355 7.4624 8.220	10.5578 7.2558	9.1768 8.7421 9.0862	2 9.0408
Lincoln 9.9837 9.7248 12.6702 7.5542 10.5012 Lander 13.4051 6.6586 10.3134 12.5732 6.4466 9.8977 Lincoln 9.9837 9.1596 9.6086 10.1037 5.6931 8.1072 Lincoln 9.9837 9.1596 9.6086 10.1037 5.6931 8.1072 Mean 10.7286 2.4469 11.1632 15.1796 8.7297 12.3211 Lime Risk Area:	8.6952 6.4373	9.1117 7	40
Lincoln 9.9837 9.1598 10.3134 12.5732 6.4466 9.8977 1.1 clincoln 9.9837 9.1598 9.6086 10.1037 5.6931 8.1072 9.1828 9.6086 10.1037 5.6931 8.1072 9.1828 9.6086 10.1037 5.6931 8.1072 9.1828 12.6978 9.4489 11.1632 15.1796 8.7297 12.3211 9.2926 11.1209 7.0829 9.3507 7.1532 8.5462 9.7130 6.9045 8.3672 9.3507 9.50. 1.5211 1.3767 1.2015 2.0228 0.9282 1.4433 1.4432 11.2788 8.5894 9.9651 6.3446 8.3463 8.5694 9.2028 0.9282 1.4433 1.4432 11.278 8.4270 6.2740 8.0697 8.0697 8.70 11.2758 5.2693 8.5894 9.2203 6.8572 8.1579 9.4269 11.4532 11.4532 11.4532 11.4532 11.4532 11.4532 11.4532 11.4532 11.4532 11.4532 11.4532 11.4532 11.4532 11.4532 11.4532 11.4533 11.4533 11.4533 11.4543 11.3574 6.8041 7.3253 11.4432 12.0581 8.7895 10.6792 11.3374 4.6751 8.2837 9.4831 7.4748 8.7990 11.3374 4.6751 8.2837 9.4831 7.4748 8.7990 11.3570 11.3374 4.6773 8.2377 11.3589 9.7729 10.8007 11.3500 4.7777 11.8589 9.7729 10.8007 11.3600 7.2693 9.7842 9.9159 7.4542 8.7446 8.7007 8.00	11.6574 7.4713 1	8.8624 7	_
Lincoln 9.9837 9.1598 9.6086 10.1037 5.6931 8.1072 I throuln 9.7506 8.6126 9.4557 9.8124 7.9115 9.1828 Pershing 12.4978 9.4459 11.1632 15.1796 8.7297 12.3211 Hean 10.7286 7.5191 9.2926 11.1209 7.0829 9.3507 S.D. 1.5211 1.3767 1.2015 2.0228 0.9282 1.4433 Elko 11.2738 5.2693 8.5894 9.9651 6.3240 8.0697 Eureka 15.7590 4.1332 7.6924 8.6270 6.2740 8.0697 Beneralda 10.7076 4.1332 7.6924 8.6270 6.2740 8.0697 Elko 11.2758 5.2693 8.5894 9.9651 6.3240 8.0697 Eureka 15.7590 4.1332 7.6924 8.6270 6.2740 8.1579 Wean 14.6841 7.3255 11.4432 12.9362 2.5520	10.2369 7.7891	10.0845	_
Wee 9.7506 8.6126 9.4457 9.8124 7.9115 9.1828	10.6485 6.1538	7.4693	
Pershing 12,4978 9,4489 11,1632 15,1796 8,7297 12,3211 Mean 10,7286 7,5191 9,2926 11,1209 7,0829 9,3507 S.D. 1,5211 1,3767 1,2015 2,0228 0,9282 1,4433 Etko Esmeralda 10,7076 4,1332 7,6924 8,6270 6,2740 8,0697 Eureka 15,7590 5,6701 11,8513 7,2762 7,6511 7,3288 White Pine 8,7441 5,3336 7,1454 9,2203 6,8572 8,1579 Risk Area: Carson City 12,3733 9,0746 10,6911 9,6520 6,4240 8,0313 Lyon 11,3374 4,6751 8,2837 9,8431 7,4748 8,7990 Wineral 9,1331 7,1644 8,2701 11,3478 7,9586 9,8149 Storey 19,8477 10,0016 14,7717 11,8589 9,7929 10,8007 S.D. 4,7727 2,7455 3,5167 3,0477 2,3343 2,6884 S.D. 4,7727 4,7484	9.4667 7.6261	8.3657	6 7.7742
Mashoe 9.8557 7.1532 8.5462 9.7130 6.9045 8.3672	13.1442 6.6747	10.3045	
Nean 10.7288 7.5191 9.2926 11.1209 7.0829 9.3507 S.D. 1.5211 1.3767 1.2015 2.0228 0.9282 1.4433 Elko 11.2738 5.2693 8.5894 9.9651 6.3466 8.3663 Esmeralda 10.7076 4.1332 7.6924 8.6270 6.2740 8.0697 Eureka 15.7590 5.6701 11.8513 7.2762 7.6511 7.3288 J. Mitee Pine 8.7441 5.3336 7.1454 9.2203 6.8572 8.1579 S.D. 4.26241 7.3255 11.4432 12.0581 8.7895 10.6792 S.D. 4.2628 1.8609 3.2421 2.9562 2.2526 2.6069 Risk Area: 2.4268 1.6609 3.2421 2.9562 2.2526 2.6069 Risk Area: 11.3374 4.6751 8.2837 9.8431 7.4748 8.7990 J.yon 11.3374 4.6751 8.2701 11.3478 7.9586	9.6613 7.4435	8.5036	
S.D. 1.5211 1.3767 1.2015 2.0228 0.9282 1.4433 Elko 11.2758 5.2693 8.5894 9.9651 6.3646 8.3663 Esmeralda 10.7076 4.1332 7.6924 8.6270 6.2740 8.0697 Eureka 15.7590 5.6701 11.8513 7.2762 7.6511 7.3288 J. White Pine 8.7441 5.3336 7.1454 9.2203 6.8572 8.1579 Mean 14.6841 7.3255 11.4432 12.0581 8.7895 10.6792 S.D. 4.2628 1.8609 3.2421 2.9362 2.2526 2.6069 Risk Area: Carson City 12.3733 9.0746 10.6911 9.6520 6.4240 8.0313 Douglas 8.2386 5.4291 6.9042 6.8775 5.6207 6.2772 J. Lyon 11.3374 4.6751 8.2837 9.8431 7.4748 8.7990 J. Wineral 9.1331 7.1644 8.2701 11.3478 7.9586 9.8149 J. Storey 19.8477 10.0016 14.7717 11.8589 9.7929 10.8007 Mean 12.1860 7.2693 9.7842 9.9159 7.4542 8.7446 S.D. 4.7727 2.7455 3.5167 3.0477 2.3343 2.6884	10.5085 7.1065	8.9305	
Etko 11.2758 5.2693 8.5894 9.9651 6.3646 8.3663 Esmeralda 10.7076 4.1332 7.6924 8.6270 6.2740 8.0697 Eureka 15.7590 5.6701 11.8513 7.2762 7.6511 7.3288 15.7590 5.6701 11.8513 7.2762 7.6511 7.3288 15.7590 5.6701 11.8513 7.2762 7.6511 7.3288 15.7590 5.6701 11.8513 7.1644 9.2203 6.8572 8.1579 8.0 0.6792 0.2203 6.8572 8.1579 10.6792 0.2203 6.8572 8.1579 10.6792 0.2203 6.8572 8.1579 10.6792 0.2203 6.8572 8.1579 10.6792 0.2203 6.8572 8.1579 10.6792 0.2203 6.8572 8.1579 10.6792 0.2203 6.8573 9.0542 6.8775 5.6207 6.2772 0.2009 0.1331 7.1644 8.2837 9.8431 7.4748 8.7990 0.1331 7.1644 8.2701 11.3478 7.9586 9.8149 0.1331 7.1644 8.2701 11.3478 7.9586 9.8149 0.1311 7.1649 0.7727 2.7653 9.7842 9.9159 7.4542 8.7446 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007 0.2007	1.2968 0.5642		
Etko 11.2758 5.2693 8.5894 9.9651 6.3646 8.3653 Esmeralda 10.7076 4.1332 7.6924 8.6270 6.2740 8.0697 Eureka 15.7590 5.6701 11.8513 7.2762 7.6511 7.3288 9.0574 11.8513 7.2762 7.6511 7.3288 15.79 11.45432 12.0581 8.7895 10.6792 8.1579 11.4543 12.0581 8.7895 10.6792 12.0581 8.7895 10.6792 12.0581 8.7895 10.6792 12.0581 8.7895 10.6792 12.0581 8.2836 5.4291 6.9042 6.8775 5.6207 6.2772 12.0593 8.2386 5.4291 6.9042 6.8775 5.6207 6.2772 11.3374 4.6771 8.2837 9.8431 7.4748 8.7990 11.3374 4.6771 8.2837 9.8431 7.4748 8.7990 11.3574 10.0016 14.7717 11.8589 9.7929 10.8007 12.1860 7.2693 9.7842 9.9159 7.4542 8.7446 8.700 12.1860 7.2693 9.7842 9.9159 7.4542 8.7446 8.700 12.1860 7.2693 9.7842 9.9159 7.4542 8.7446 8.700 12.1860 7.2693 9.7842 9.9159 7.4542 8.7446 8.700 12.1860 7.2693 9.7842 9.9159 7.4542 8.7446			
Eureka 10.7076 4.1332 7.6924 8.6270 6.2740 8.0697 Eureka 15.7590 5.6701 11.8513 7.2762 7.6511 7.3288 Mean 14.6841 7.3255 11.4432 12.0581 8.7895 10.6792 S.D. 4.2628 1.8609 3.2421 2.9362 2.2526 2.6069 Risk Area: Carson City 12.3733 9.0746 10.6911 9.6520 6.4240 8.0313 Douglas 8.2386 5.4291 6.9042 6.8775 5.6207 6.2772 Mineral 9.1331 7.1644 8.2701 11.3478 7.9586 9.8149 Storey 19.8477 10.0016 14.7717 11.8589 9.7929 10.8007 Mean 12.1860 7.2693 9.7842 9.9159 7.4542 8.7446 S.D. 4.7727 2.7455 3.5167 3.0477 2.3343 2.6884	11.6156 7.2874	9.7899 9.0423 6.8697	7 8.1787
Eureka 15.7590 5.6701 11.8513 7.2762 7.6511 7.3288 Mean 14.6841 7.3255 11.4432 12.0581 8.7895 10.6792 S.D. 4.2628 1.8609 3.2421 2.9362 2.2526 2.6069 Risk Area: Carson City 12.3733 9.0746 10.6911 9.6520 6.4240 8.0313 Douglas 8.2386 5.4291 6.9042 6.8775 5.6207 6.2772 J Lyon 11.3374 4.6751 8.2837 9.8431 7.4748 8.7990 J Wineral 9.1331 7.1644 8.2701 11.3478 7.9586 9.8149 J Storey 19.8477 10.0016 14.7717 11.8589 9.7752 10.8007 Mean 12.1860 7.2693 9.7842 9.9159 7.4542 8.7446 S.D. 4.7727 2.7455 3.5167 3.0477 2.3343 2.6884	11.7528 8.1505 1	14.0107	-
White Pine 8.7441 5.3336 7.1454 9.2203 6.8572 8.1579 Nean 14.6641 7.3255 11.4432 12.0581 8.7895 10.6792 S.D. 4.2628 1.8609 3.2421 2.9362 2.2526 2.6069 Risk Area: Carson City 12.3733 9.0746 10.6911 9.6520 6.4240 8.0313 Lyon 11.3374 4.6751 8.2837 9.8431 7.4748 8.7990 Nineral 9.1331 7.1664 8.2701 11.3478 7.9586 9.8149 Storey 19.8477 10.0016 14.7717 11.8589 9.7929 10.8007 Hean 12.1860 7.2693 9.7842 9.9159 7.4542 8.746 S.D. 4.7727 2.7455 3.5167 3.0477 2.3343 2.6884	9.6305 6.2885	8.7203 8.0135 4.4959	
Hean 14,6841 7,3255 11,4432 12,0581 8,7895 10,6792 15.D. 4,2628 1,8609 3,2421 2,9362 2,2526 2,6069 1,6792 17.373 9,0746 10,6911 9,6520 6,4240 8,0313 Douglas 8,2386 5,4291 6,9042 6,8775 5,6207 6,2772 1,00016 14,7717 11,8589 9,7929 10,8007 1 12,1860 7,2693 9,7842 9,9159 7,4542 8,7446 8,000 1,00016 14,7777 11,8589 9,7929 10,8007 1,00016 14,7777 11,8589 9,7929 10,8007 1,00016 14,7777 11,8589 9,7929 10,8007 1,00016 14,7777 11,8589 9,7929 10,8007 1,00016 14,7777 11,8589 9,7929 10,8007 1,00016 14,7777 11,8589 9,7929 10,8007 1,00016 14,7777 11,8589 9,7929 10,8007 1,00016 14,7777 11,8589 9,7929 10,8007 1,00016 14,7777 11,8589 9,7929 10,8007 1,00016 14,7777 11,8589 9,7929 10,8007 1,00016 14,7777 11,8589 9,7929 10,8007 1,00016 14,7777 11,8589 9,7929 10,8007 1,00016 14,7777 11,8589 9,7929 10,8007 1,00016 14,7777 11,8589 9,7929 10,8007 1,00016 14,7777 11,8589 9,7929 10,8007 1,00016 14,7777 11,8589 9,7929 10,8007 1,00016 14,7777 11,8589 9,7929 10,8007 1,00016 14,7777 11,8589 9,7929 10,8007 1,00016 14,7777 11,8589 9,7929 10,8007 1,00016 14,7777 11,8589 9,7929 10,8007 1,00016 14,7777 11,8589 9,7929 10,8007 1,00016 14,7777 11,8589 9,7929 10,8007 1,00016 14,7777 11,8789 9,7929 10,8007 1,00016 14,7777 11,8789 9,7929 10,8007 1,00016 14,7777 11,8789 9,7929 10,8007 1,00016 14,7777 11,8789 9,7929 10,8007 1,00016 14,7777 11,8789 9,7929 10,8007 1,00016 14,7777 11,8789 9,7929 10,8007 1,00016 14,7777 11,8789 9,7929 10,8007 1,00016 14,7777 11,8789 9,7929 10,8007 1,00016 14,7777 11,8789 9,7929 10,8007 1,00016 14,7777 11,8789 9,7929 10,8007 1,00016 14,7777 11,8789 9,7929 10,8007 1,00016 14,7777 11,8789 9,7929 10,8007 1,00016 14,7777 11,8789 9,7929 10,8007 1,00016 14,7777 11,8789 9,7929 10,8007 1,00016 14,7777 11,8789 9,7929 10,8007 1,00016 14,7777 11,8789 9,7929 10,8007 1,00016 14,7777 11,00016 14,7777 11,00016 14,7777 11,00016 14,7777 11,00016 14,7777 11,00016 14,7777 11,00016 14,7777 11,00016 14,7777 11,00016 14,7777 11,00016 14,7777 11,00016 14,7777 11,00016 14,7777 11,00016 14,7777 11,00016 14,7777 11,00016 14,7777 11,00016 14,7777 11,0	10.9056 6.4508	•	
S.D. 4.2628 1.8609 3.2421 2.9362 2.2526 2.6069 Risk Area: Carson City 12.3733 9.0746 10.6911 9.6520 6.4240 8.0313 Douglas 8.2366 5.4291 6.9042 6.8775 5.6207 6.2772) Lyan 11.3374 4.6751 8.2837 9.6431 7.4748 8.7990) Mineral 9.1331 7.1664 8.2701 11.3478 7.9586 9.8149) Storey 19.8477 10.0016 14.7717 11.8589 9.7929 10.8007 Mean 12.1860 7.2693 9.7842 9.9159 7.4542 8.7446 S.D. 4.7727 2.7455 3.5167 3.0477 2.3343 2.6884	13.9274 8.9620	11.8355 12.8790 8.5851	-
Carson City 12.3733 9.0746 10.6911 9.6520 6.4240 8.0313 Douglas 8.2386 5.4291 6.9042 6.8775 5.6207 6.2772 Ltyon 11.3374 4.6751 8.2837 9.6431 7.4748 8.7990) Mineral 9.1331 7.1664 8.2701 11.3478 7.9586 9.8149) Storey 19.8477 10.0016 14.7717 11.8589 9.7929 10.8007 Mean 12.1860 7.2693 9.7842 9.9159 7.4542 8.7446 S.D. 4.7727 2.7455 3.5167 3.0477 2.3343 2.6884	3.6418 2.4945	3.9592	
Carson City 12.3733 9.0746 10.6911 9.6520 6.4240 8.0313 Carson City 12.3733 9.0746 10.6911 9.6520 6.4240 8.0313 Douglas 8.2386 5.4291 6.9042 6.8775 5.6207 6.2772 1 Lyan 11.3374 4.6751 8.2837 9.8431 7.4748 8.7990) Mineral 9.1331 7.1664 8.2701 11.3478 7.9586 9.8149) Storey 19.8477 10.0016 14.7717 11.8589 9.7929 10.8007 1 Mean 12.1860 7.2693 9.7842 9.9159 7.4542 8.7446 S.D. 4.7727 2.7455 3.5167 3.0477 2.3343 2.6884			
Douglas 8.2366 5.4291 6.9042 6.8775 5.6207 6.2772 (1.2014) 11.3374 4.6751 8.2837 9.6431 7.4748 8.7990 (1.3574 19.8477 10.0016 14.7717 11.8589 9.7929 10.8007 11.8589 12.1860 7.2693 9.7842 9.9159 7.4542 8.7446 s.D. 4.7727 2.7455 3.5167 3.0477 2.3343 2.6884	7600 9 9925 8	7 3371 0 2832 7 4314	(713 8 7
Lyon 11.3374 4.6751 8.2837 9.6431 7.4748 8.7990 Wineral 9.1331 7.1664 8.2701 11.3478 7.9586 9.8149 Storey 19.8477 10.0016 14.7717 11.8589 9.7929 10.8007 Wean 12.1860 7.2693 9.7842 9.9159 7.4542 8.7446 S.D. 4.7727 2.7455 3.5167 3.0477 2.3343 2.6884	7.0303 5.8109	6.0867	
Nineral 9.1331 7.1664 8.2701 11.3478 7.9586 9.8149 Storey 19.8477 10.0016 14.7717 11.8589 9.7929 10.8007 1 Hean 12.1860 7.2693 9.7842 9.9159 7.4542 8.7446 S.D. 4.7727 2.7455 3.5167 3.0477 2.3343 2.6884	8.9495 7.0390	8.7687	
Storey 19.8477 10.0016 14.7717 11.8589 9.7929 10.8007 Mean 12.1860 7.2693 9.7842 9.9159 7.4542 8.7446 S.D. 4.7727 2.7455 3.5167 3.0477 2.3343 2.6884	8.6650 7.2130	10.9506	
12.1860 7.2693 9.7842 9.9159 7.4542 8.7446 4.7727 2.7455 3.5167 3.0477 2.3343 2.6884	11.3151 11.6058 1	7.6218	
4.7727 2.7455 3.5167 3.0477 2.3343 2.6884	8.8973 7.5356	8.5422	,-
	2.3289 2.6894	•	••
6.5771	9.1660 6.7110	8.0756 8.9071 7.3496	6 8.2535
U.S. Total 9.4500 5.4840 7.3090 9.2190 5.2000 7.0180 8.1190	8.1190 4.5060		

Rates are per 1,000 estimated population.

Table 18 panel 1 AGE-ADAUSTED DEATH RATES DUE OF CARDIOVASCULAR DISEASE IN NEVADA RESIDENTS

COUNTY										•	3	
	¥IE	FEMALE	B 01#	MIE	FEMALE	MOTH	MALE	FEMALE	ВОТИ	MALE	FEMALE	BOTH
High Risk Aree:									ļ			
(2) Churchill	3.3372	1.6430	2.4402	4.1876	2.4143	3.2906	4.4526	2.0682	3.1956	4.2047	2.3695	3.2471
(3) Clark	3.3158	1.3823	2.3260	3.7518	1.8122	2.7381	3.8724	2.0923	2.8631	4.1438	2.4459	3.1331
(8) Munchooldt	3.9929	2.0148	3.0433	4.5800	2.8086	3.7686	4.5125	2.1499	3.3891	3.2024	2.2973	2.7978
(9) Lander	5.0176	1.5893	3.4330	5.1657	2.9677	4.0687	5.2623	3.0697	4.1518	4.3202	1.1584	2.7600
(10) Lincoln	5.6471	3.1566	4.3320	3.8677	2.238	3.0774	3.8404	1.8005	2.7698	2.5820	2.6351	2.6287
(13) Mye	2.6730	2.1366	2.5532	3.4761	1.7745	2.7689	4.1995	1.9381	3.0755	3.0192	1.7729	2.4162
(14) Pershing	3.0231	5.1044	4.0505	4.1469	2.7246	3.4443	7.33	2.0063	4.5968	2.7078	1.7786	2.2735
(16) Washoe	4.0600	2.0384	2.9642	4.4401	2.1041	3.1737	4.2647	2.1786	3.1127	3.6005	2.1297	2.8046
re es	3.8634	2.3832	3.1428	4.2045	2.3575	3.2913	4.7077	2.1630	3.3943	3.4726	2.0735	2.7576
\$.D.	0.9532	1.1456	0.6958	0.4950	0.4222	0.4322	1.0497	0.3611	0.6034	0.6498	0.4485	0.3066
Medium Risk Area:												
(S) Elko	5.5884	1.3604	3.3717	4.8000	1.8680	3.2911	4.1064	1.6000	2.7821	3.2562	1.9695	2.6215
(6) Esmeralda	1.2456	0.000	0.7091	4.2684	2.9843	3.7188	6.8155	5.4049	4.4683	7.1288	1.4181	3.8099
(7) Eureka	8.5549	1.4867	5.4776	1.3430	3.1529	2.1390	5.2720	2.0184	4.2304	5.3505	0.8543	3.4234
(17) White Pine	3.2929	1.4069	2.2690	3.9996	2.4876	3.2145	4.4632	1.9452	3.1519	3.8875	2.1310	2.8%
Heen	4.6705	1.0635	2.9569	3.6028	2.6232	3.0909	5.1643	1.9921	3.6582	4.9058	1.5932	3.2011
S.D.	2.7184	0.6157	1.7358	1.3361	0.4999	0.5822	1.0427	0.2859	0.7084	1.4914	0.5019	0.4526
Low Risk Area:												
(1) Carson City	4.8610	2.2475	3.3675	4.7217	2.0445	3.2120	4.3002	1.8678	2.8870	4.2691	2.3233	3.1836
selfmod (4)	4.0247	1.9751	2.9782	2.9981	2.0182	2.5165	3.5407	1.8234	2.6888	3.0665	1.6810	2.3010
(11) Lyan	2.6660	1.0688	1.8572	4.1791	1.8549	2.%72	3.1400	1.6085	2.3510	3.4085	2.2217	2.8177
(12) Mineral	3.6972	1.5403	2.6072	4.5323	2.1412	3.3440	3.3467	1.7431	2.5273	3.1589	1.8621	2.5177
(15) Storey	8.8146	2.2913	5.3314	3.0476	3.4195	3.4092	6.0082	6.5692	6.4140	3.3551	4.2912	3.8965
Mean	4.8127	1.8246	3.2283	3.8958	2.2957	3.0898	4.0672	2.72%	3.3736	3.4516	2.4759	2.9433
S.D.	2.1209	0.4629	1.1637	0.7339	0.5694	0.3241	1.0467	1.9254	1.5305	0.4274	0.9372	0.5614
State Total	3.7292	1.6837	2.6630	4.0542	1.9936	2.9735	4.0593	2.0766	2.9660	3.8936	2.2766	2.9899
1.4.5		1										

Rates are per 1,000 estimated population.

Table 18 panel 2 age-adjusted Death Rates Due of Hypertension in Nevada Residents

COUNTY High Risk Area:	MALE											
igh Risk Area:		FEMILE	ВОТИ	MALE	FEMALE	BOTH	MALE	FEMALE	ВОТИ	MALE	FEMALE	BOTH
(2) Churchill	0.0000	0.000	0.000	0.0399	0.0675	0.0537	0.0288	0.0274	0.0277	0.0000	0.0273	0.0142
(3) Clark	0.0273	9.0164	0.0211	0.0380	0.0221	0.0290	0.0127	0.0172	0.0149	0.0155	0.0271	0.0213
(8) Numboldt	0.000	0.1709	9260.0	0.06%	0.0660	0.0710	0.0000	0.0557	0.0236	0.0365	0.0000	0.0212
(9) Lander	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000
(10) Lincoln	0.3939	0.000	0.1851	0.000	0.000	0.000	0.000	0.0000	0.0000	0.0000	0.000	0.000
(13) Bye	0.000	9.0764	0.000	0.1545	0.0764	0.1120	0.000	0.0000	0.000	0.000	0.000	0.000
(16) Pershing	0.000	0.1210	0.000	0.1418	0.1210	0.1308	0.000	0.0000	0.000	0.000	0.000	0.000
(16) Washoe	0.0216	0.0183	0.0150	0.0222	0.0183	0.0197	0.0184	0.0025	0.00%	0.0079	0.0172	0.0131
Ze es	0.0554	0.0504	0.0392	0.0582	0.0464	0.0520	0.0075	0.0129	0.00%	0.0073	0.0000	0.0087
S.D.	0.1284	0.0612	0.0624	0.0561	0.0403	0.0463	0.0105	0.0188	0.0107	0.0122	0.0119	0.0091
edia Pisk Area:												
(5) Elko	0.1635	0.0756	0.1241	0.1482	0.0552	0.0953	0.0419	0.0535	0.0465	0.0446	0.0517	0.0491
(6) Esmeralda	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.000	0.000
(7) Eureka	0.000	0.0000	0.000	0.0000	0.000	0.000	0.0000	0.0000	0.000	0.000	0.000	0.000
(17) White Pine	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.0363	0.0181	0.0560	0.0404	0.0470
Kean	0.0409	0.0189	0.0310	0.0371	0.0138	0.0238	0.0105	0.0225	0.0162	0.0252	0.0230	0.0240
S.D.	0.0708	0.0327	0.0537	0.0642	0.0239	0.0413	0.0181	0.0233	0.0190	0.0255	0.0234	0.0240
ou Bisk Area.												
(1) Carson City	0.000	0.0911	0.0538	0.0452	0.000	0.0158	0.000	0.0149	0.0084	0.0120	0.0258	0.0235
	0.000	0.000	0.000	0.0000	0.000	0.000	0.0000	0.0000	0.0000	0.0000	0.0207	0.000
(11) Lyon	0.1627	0.0000	0.0718	0.0898	0.0427	0.0670	0.000	0.0342	0.0174	0.000	0.0303	0.0174
(12) Mineral	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.0638	0.0335	0.1384	0.2595	0.2082
(15) Storey	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000	0.0000	0.000	0.000	0.000
Mean	0.0325	0.0182	0.0251	0.0270	0.0085	0.0166	0.000	0.0226	0.0119	0.0301	0.0673	0.0518
S.D.	0.0651	0.0364	0.0313	0.0360	0.0171	0.0260	0.000	0.0241	0.0126	0.0544	0.0967	0.0786
State Total	0.0329	0.0197	0.0256	0.0388	0.0228	0.0297	0.0135	0.0151	0.0141	0.0152	0.0271	0.0215
U.S. Total	0.0360	0.0260	0.0300	0.0310	0.0220	0.0260	0.0190	0.0140	0.0160	0.0240	0.0180	0.0500

Rates are per 1,000 estimated population.

Table 18 panel 3
AGE-ADJUSTED DEATH RATES DUE OF CANCER IN NEVADA RESIDENTS

### FRMLE #0714 WALE FEMALE #0714 WALE FEMALE #0714 WALE FEMALE #0714 WALE 1.24261 1.1301 1.7566 1.8079 1.3802 1.5819 2.2656 1.3053 1.7859 1.7716 1.5770 0.9732 1.2572 0.9495 1.2802 0.2067 0.9500 1.7075 1.3003 1.50534 2.2803 1.605 0.2590 0.7955 1.4629 0.2067 0.9500 1.7075 1.3003 1.5033 2.0472 1.0063 1.4696 0.7955 1.4629 0.2067 0.9500 1.7075 1.3003 1.5033 2.0473 1.0063 1.4696 0.7955 1.4629 0.2067 0.9500 1.7075 1.3003 1.2022 2.1467 1.0063 1.4696 0.7955 1.4629 0.2067 0.9500 1.7075 1.3003 1.5033 2.0473 1.00727 0.6000 1.6790 2.6253 1.6541 2.1663 1.2069 1.2032 1.2067 1.00727 0.4059 1.4679 1.2003 1.4679 1.2004 0.2007 0.1003 1.2009 1.2003 1.00727 0.4059 0.2857 0.2857 1.4679 1.3904 1.3904 1.3904 1.3904 1.3904 1.3904 1.3904 1.3904 1.3904 1.3904 1.3904 1.3904 1.3904 1.3904 1.3904 1.3904 1.3904 1.3904 1.3904 1.3009 1.4673 1.2009 1.2009 1.4673 1.2009 1.2009 1.4673 1.2009 1.3009 1.4673 1.2009 1.3009 1.4673 1.2009 1.3009 1.2009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.3009 1.300	2	•	1968-1969		-	1970-74			1975-79			980-83	
Chart Control Contro		MALE	FEMALE	BOTK	MALE	FEMALE	вотн	MALE	FEMALE	8 01H	MALE	FEMALE	BOTH
Climit 1,577 1,989 1,381 1,382 1,382 1,383 1,383 1,383 1,383 1,383 1,383 1,383 1,383 1,383 1,383 1,384 1,384 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,484 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,4	High Risk Are												
Classical colored co			1.1301	1.7566	1.8059	1.3882	1,5810	2 3458	1 1051	1 7450			
Name		1.5770	•	1.2572	1,8010	0726	7087	0.00.7		1.7039	0117.1	2.7 28	1.6971
Lincoin 1.0465 0.5789 0.7485 1.4289 0.2484 1.0142 1.7114 1.6009 1.5781			1 1606	4777		200	*:0*·-	2.0040	÷.	1.0554	2.2603	1.5826	1.8597
Lincoln 2.0502 0.2502 0.7803 1.6204 0.5000 1.7075 1.3313 1.5073 2.0472 2.7749 1.8819 1.5204 0.5204 0.5204 0.5204 0.5204 0.5204 1.7075 1.3014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014 1.2014		1770	200	904.	C 69.1	0.9495	1.2269	2.4143	1.0142	1.7114	1.6009	1.5761	1.5899
Perahira 1.502.0 1.5035 1.5045 0.3452 0.9384 1.7402 1.9399 1.2707 1.3104 1.3104 1.4095 1.4092 0.3415 1.0077 1.3104 1.2007 1.2109 1.2244 1.2562 1.6547 1.0061 1.4002 1.6707 1.2163 1.6547 1.6547 1.6549 1.2712 1.6579 1.2714 1.5909 1.7712 1.4002 1.6707 1.2163 1.6549 1.7712 1.6579 1.7712 1.6579 1.7712 1.6579 1.7712 1.6579 1.7712 1.6579 1.2714 1.6599 1.7712 1.6579 1.7712 1.6579 1.7712 1.6712 1.6712 1.7712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712 1.6712			0.52%	0.7985	1.6239	0.2067	0.9500	1.7075	1.3303	1.5033	2.0472	2.7749	2.4736
Hearing 1.2822 0.0010 1.6770 1.4002 0.9316 1.2007 1.2004 1.2434 1.2262 1.6671 1.0061 Hearing 1.5262 0.0000 1.6570 1.6571 1.2544 1.5564 2.1655 1.6577 1.6531 1.6579 1.3772 1.6530 1.7756 2.0922 1.4170 S.D. 1.6561 0.9655 1.4073 1.6250 1.6471 0.1264 1.9796 1.3904 1.9796 1.4531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6631 1.6531 1.6632 1.6340 0.1545 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531 1.6531			_	1.4958	1.5804	0.3422	0.9384	1.7842	1.9309	1.8339	1.2707	1.3104	1 2608
1.252 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.55			_	1.1797	1.4002	0.9316	1.2007	1,2190	1.2434	1.2262	1,6674	1	100
1.864 0.9655 1.4073 1.5344 1.5646 1.5646 1.5676 1.776 1.756 1.776 1.6436 1.4470 1.877 1.577 1.575 1.473 1.6435 1.4470 1.377 1.5764 1.5676 1.978 1.978 1.961 1.6435 1.4436 1.4631 1.6525 1.4436 1.6431 1.6431 1.6432 1.6435 1.6435 1.6435 1.6435 1.6435 1.6435 1.6435 1.6435 1.6435 1.6435 1.6435 1.6436 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.6432 1.64			0.0000	1.6790	2.6255	1.6541	2.1663	2.1655	1.5679	1.8332	7 1685		2000
Near 1.8661 0.9655 1.4073 1.7835 0.9951 1.3904 1.9798 1.3901 1.6631 1.6435 1.4535 S.D. O.7774 0.4596 0.2867 0.3641 0.4700 0.3778 0.3640 0.2504 0.1937 0.1937 0.4645 Elko 1.2801 0.4675 0.8672 1.1913 1.7443 1.2804 0.4572 0.3197 0.4635 Esmeralda 1.2801 0.4675 0.8672 1.2802 0.4913 0.5949 0.4570 0.4571 0.5949 0.5460 0.1979 0.5949 0.4577 0.7479 0.5949 0.4577 0.7479 0.5949 0.4577 0.7479 0.5949 0.4577 0.5489 0.5949 0.5460 0.5174 0.5949 0.5467 0.5949 0.5467 0.5949 0.5467 0.5949 0.5467 0.5949 0.5467 0.5949 0.5467 0.5949 0.5467 0.5949 0.5467 0.5949 0.5467 0.5949 0.5467 0.5467 0	3		1.3573	1.6250	1.875	1.2544	1.5696	2.2174	1.4350	1,7756	2 0013	2 5	
\$.0. 0.7274 0.4596 0.2957 0.3641 0.4700 0.3778 0.3640 0.2504 0.1937 0.3649 0.4665 Esseralda 1.2796 1.3505 0.6052 0.0000 0.9183 0.5949 0.3490 0.5124 0.7479 0.9497 0.4665 0.0000 0.6433 0.5949 0.3490 0.5124 0.7479 0.9497 0.4665 0.0000 0.6433 0.7091 0.6433 0.5949 0.3490 0.5124 0.9987 0.3497 0.9497 0.9497 0.9497 0.9497 0.0000 0.6433 0.7091 0.6433 0.7091 0.6433 0.7091 0.6433 0.9987 0.3292 0.7091 0.6433 0.9987 0.3490 0.5124 0.9987 0.3490 0.5124 0.9987 0.3490 0.5124 0.9987 0.3490 0.5124 0.9987 0.5497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0.9497 0	Mea		0.9655	1.4073	1,7835	0.9951	1,3904	1 0708	1 3061	1 663	1 86.26	26.7	307.
Esserated 1.2801 0.4675 0.8672 1.2942 1.1105 1.1913 1.7443 1.2404 1.4572 1.8131 0.9405 Esserated 1.2796 1.3936 1.2807 0.6935 0.0000 0.9183 0.9949 0.3490 0.5124 0.7477 0.9379 0.4939 0.5124 0.9379 0.4939 1.2805 0.0000 0.6933 1.3799 1.3804 0.5124 0.9399 1.0824 0.9399 1.0827 1.0828 1.2805 0.0000 0.6335 0.9459 1.08105 1.3727 1.0320 0.8244 0.9299 1.0827 1.0709 0.7737 0.5488 0.6326 0.7456 0.5326 0.6315 0.7350 0.5324 0.9395 1.0805 1.0909 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4459 1.0879 0.4449 0.4459 0.4459 1.0879 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.4449 0.	8.0		0.45%	0.2957	0.3641	0.4700	0.3778	0.3640	0.2504	0.1017	0 1107	0.00	1.70%
Elko 1.2801 0.4675 0.8672 1.2942 1.1105 1.1913 1.7443 1.2404 1.4572 1.8131 0.9605 Esseralda 1.2706 1.3936 1.2696 1.6002 0.09183 0.5949 0.3490 0.5124 1.2205 0.0000 0.6835 2.7691 0.7517 1.8704 0.5823 0.7091 0.6453 0.9989 1.3252 Lwite Pine 1.0454 1.0572 1.0517 1.0351 1.6603 1.3709 1.3064 0.9989 1.0887 2.3022 1.0628 S.D. O.7737 0.5486 0.6326 0.6326 0.7456 1.2044 1.456 1.8104 1.7043 1.2727 0.9335 1.0962 1.7079 0.5409 1.6059 Bisk Area: Carson City 2.3215 1.8815 2.0940 2.22644 1.4456 1.8104 1.9044 1.2728 1.5791 2.4847 1.0979 Lyon 2.4530 0.6499 1.5515 1.197 1.6099 1.0039 1.277 0.9335 1.0962 1.777 1.5794 1.9070 Lyon 2.4530 0.6499 1.5515 1.197 1.4455 1.2044 1.4300 1.2446 1.2077 1.5344 1.9062 1.4074 1.9070 S.D. S.D. O.8139 1.4551 1.2697 1.2049 1.4300 1.2444 1.4300 1.2444 1.2456 1.2077 1.5344 1.9070 S.D. S.D. O.8139 1.4599 1.0039 1.2077 1.2044 0.2164 1.4001 1.2044 0.2164 1.3002 1.2444 1.4001 1.2044 0.2164 1.3002 1.2445 1.2007 1.2044 0.2073 1.2044 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.3002 1.2444 1.300											0.317	0.4043	0.33%3
Elko 1.2801 0.4675 0.8672 1.2942 1.1103 1.1913 1.7443 1.2404 1.4572 1.8131 0.9605 Exmeralda 1.2796 1.3936 1.2602 0.0000 0.9183 0.5949 0.3490 0.5124 0.7479 0.9379 Locks 1.2005 0.0633 2.7691 0.7517 1.8704 0.5823 0.7091 0.4333 0.9352 1.3205 0.0393 1.3255 1.0026 0.9395 1.0204 0.7582 1.2004 0.9989 1.0887 2.3022 1.0208 0.9395 1.0204 0.7582 0.7999 1.0204 0.7582 1.0006 1.0204 0.7456 0.5326 0.6315 0.6315 0.6315 0.7456 0.5326 0.6315 0.7350 0.6316 1.2004 0.7589 1.0204 0.7599 1.0204 0.7599 1.0204 0.7596 1.2004 0.7989 1.0204 0.7599 1.6005 0.6315 1.6005 0.7390 0.5324 0.7250 0.7039 0.7204	Hedium Risk A	rea:											
Esseratida 1.2796 1.3956 1.2698 1.0502 1.0103 1.1713 1.5404 1.4572 1.4512 1.6403 1.2404 1.2505 0.000 0.6433 2.7691 0.7517 1.6002 0.7517 0.7517 0.5499 0.3499 0.5124 0.7517 0.5489 1.0807 1.0807 1.0807 1.0807 1.0807 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0809 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0808 1.0089 1.0089 1.0089 1.0089 1.0089 1.0089 1.0089 1.0089 1.0089 1.0089 1.0089 1.0089 1.0089 1.0089 1.0089 1.0089 1.0089 1.0089 1.0089 1.0089 1.0089 1.0089 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098 1.0098		1.2801	0.4675	0.8672	1 207.2	101		;					
Eureka 1.2050 0.6835 0.7849 0.5849 0.5124 0.7479 0.9379 White Pine 1.0264 0.5823 0.7091 0.6453 0.7791 0.6453 0.7797 0.7797 0.7797 0.6453 0.7797 0.6453 0.7797 0.6453 0.7797 0.6453 0.7797 0.6453 0.7797 0.6453 0.7797 0.6453 0.7797 0.6453 0.7797 0.6453 0.7797 0.6453 0.7797 0.6453 0.7757 0.6464 0.7894 0.6453 0.7757 0.6544 0.9599 1.0876 1.6594 0.7757 0.9999 1.0709 0.7750 0.6516 0.7750 0.7750 0.7750 0.7750 0.7750 0.7750 0.7750 0.7750 0.7750 0.7750 0.7750 0.7750 0.7750 0.7750 0.7750 0.7750 0.7750 0.7750 0.7750 0.7750 0.7750 0.7750 0.7750 0.7750 0.7750 0.7750 0.7750 0.7750 0.7750 0.7750 0.7750 </td <th></th> <td>_</td> <td>1 1016</td> <td></td> <td></td> <td>-</td> <td></td> <td>. (44)</td> <td>1.6404</td> <td>1.45/2</td> <td>1.8131</td> <td>0.9605</td> <td>1.3308</td>		_	1 1016			-		. (44)	1.6404	1.45/2	1.8131	0.9605	1.3308
Miles Mile			0.3530	1.2098	1.6002	0.000	0.9183	0.5949	0.3490	0.5124	0.7479	0.9379	1.0682
1.0544 1.0517 1.0351 1.6603 1.3798 1.5106 1.2064 0.9989 1.0887 2.3022 1.0628 1.0864 0.7737 0.5488 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.6326 0.5327 0.5357 0.5357 0.6357 0.6358 0.6326 0.6326 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5367 0.5368 0.5665 0.5665 0.5665 0.5665 0.5665 0.5665 0.5665 0.5665 0.5665 0.5665 0.5665 0.5665 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0.6565 0	_		0.0000	0.6835	2.7691	0.7517	1.8704	0.5823	0.7091	0.6453	0.9582	1.3225	1.2158
First Area: 1.0064 0.7282 0.9539 1.4554 1.0709 1.4554 1.0709 S.D. 0.7737 0.5488 0.6326 0.7456 0.5384 0.6315 0.7750 0.5323 0.6218 0.6278 1.6709 Risk Area: Carson City 2.3245 1.8615 2.0640 2.2644 1.4456 1.8104 1.9964 1.2728 1.5791 2.4847 1.6138 Douglas 0.3367 0.5734 0.4764 1.2476 0.8399 1.0039 1.2777 0.9335 1.0962 1.7877 0.7990 Hyon 2.4630 0.4764 1.2476 1.2465 1.4964 1.8576 1.4857 1.6578 1.5384 1.8877 1.2777 0.9335 1.0962 1.7877 1.7877 1.7877 1.7877 1.7877 1.7877 1.7877 1.7877 1.7877 1.7877 1.7877 1.7877 1.7877 1.7877 1.7877 1.7877 1.7877 1.7877 1.7877 1.7877 1.7874 1.78			1.0517	1.0351	1.6603	1.3798	1.5106	1.2064	0.9989	1.0887	2.3022	1.0628	1 6447
Risk Area: Carson City 2.3215 1.8815 2.0940 2.2644 1.4456 1.8104 1.9964 1.2728 1.5791 2.4847 1.6138 Carson City 2.3215 1.8815 2.0940 2.2644 1.4456 1.8104 1.9964 1.2728 1.5791 2.4847 1.6138 Lyon 2.4630 0.6495 1.5284 1.2176 0.8399 1.0039 1.2727 0.9335 1.0962 1.7871 0.7990 Hyen 0.6495 1.5284 1.5465 1.2465 1.4405 1.4946 1.8777 1.8378 1.4852 1.6588 2.0715 1.2992 Hyen 0.8139 1.5641 1.4465 1.4465 1.4465 1.4946 1.2727 0.9335 1.6588 1.2007 1.2177 1.5384 1.8711 1.9962 1.7871 1.9962 Hean 1.4793 1.1455 1.3085 1.5990 1.1910 1.3879 1.4425 1.2272 1.2077 1.2384 1.8711 1.9962			0.7282	0.9639	1.8310	0.8105	1.3727	1.0320	0.8244	0.9259	1.4554	1.0709	1.3149
Risk Area: Carson City 2.3215 1.8815 2.0940 2.2644 1.4456 1.8104 1.9964 1.2728 1.5791 2.4847 1.6138 Douglas 0.3567 0.4754 1.2176 0.8399 1.0039 1.2727 0.9335 1.0962 1.7871 0.7990 Lyon 2.4630 0.6495 1.5284 1.5862 1.4465 1.4966 1.8576 1.4852 1.7871 0.7990 Hineral 1.4415 1.0716 1.2641 1.5482 1.4667 1.2077 1.4852 1.6538 1.8970 1.7904 1.4300 1.8647 1.2077 1.3879 1.6425 1.2077 1.2870 1.8679 1.7910 1.2879 1.6425 1.2077 1.2870 1.5990 1.910 1.3879 1.6425 1.2724 1.6764 1.3402 1.4856 1.4856 1.4856 1.4856 1.4856 1.4856 1.4856 1.4856 1.4856 1.4856 1.4856 1.4856 1.4867 1.4856 1.4866 1.4866	n*c		0.5488	0.6326	0.7456	0.5384	0.6315	0.7350	0.5323	0.6218	0.8921	0.6095	0.7244
Carson City 2.3215 1.8815 2.0940 2.2644 1.4456 1.8104 1.9964 1.2728 1.5791 2.4847 1.6138 1 Douglas 0.3567 0.5734 0.4764 1.2456 1.4456 1.2727 0.9335 1.0962 1.7871 0.7990 1 Lyon 2.4630 0.6495 1.5284 1.5462 1.2946 1.4946 1.8667 1.2077 1.5384 1.8711 1.7990 1 Wre 0.8139 1.5284 1.4945 1.4946 1.8667 1.2077 1.5384 1.8711 1.7990 1 Wre 0.8139 1.5494 1.4300 1.8667 1.2077 1.5384 1.8711 1.9870 1 Wre 0.8139 1.5794 1.4946 1.2434 1.2242 1.6534 1.0041 1.9970 1.1910 1.3879 1.2434 1.2244 1.6674 1.0041 1.9960 1.1900 1.2396 1.2434 1.2244 1.2047 1.6674 1.3306	Low Risk Area:												
Douglas 1.000 2.2644 1.456 1.8104 1.9964 1.2728 1.5791 2.4847 1.6138 1 Douglas 0.3567 0.5734 0.4764 1.2456 1.4456 1.2727 0.9335 1.0962 1.7871 0.7990 1 Lyon 2.4630 0.4764 1.5284 1.5462 1.2465 1.4946 1.8676 1.4852 1.6558 2.0715 1.7871 0.7990 1 Wre 0.8139 1.2727 0.9335 1.2946 1.4852 1.6558 2.0715 1.2952 1.8871 1.9870 1 Wre 0.8139 1.5794 1.4946 1.2727 0.9335 1.2946 1.2342 1.2658 1.8870 1.8870 1.244 1.2432 1.2446 1.8667 1.2434 1.2562 1.4674 1.9870 1.9870 1.1910 1.3879 1.6425 1.2434 1.2562 1.4674 1.9870 1.4642 1.2434 1.2562 1.4674 1.3402 1.3402 1.3402 </td <th></th> <td>2</td> <td>100</td> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		2	100	6									
Lyon 2.4630 0.6495 1.5284 1.5465 1.4946 1.877 0.9335 1.0962 1.7871 0.7990 1 Lyon 2.4630 0.6495 1.5284 1.5693 1.4465 1.4946 1.8576 1.4892 1.6558 2.0715 1.2952 1 Nimeral 1.4415 1.0716 1.2641 1.5482 1.2914 1.4300 1.8667 1.2077 1.5384 1.8711 1.9870 1 Nean 1.4793 1.1575 1.1797 1.4002 0.9316 1.2007 1.2434 1.2285 1.4191 1.9470 1 S.D. 0.8224 0.5070 0.5247 0.3553 0.2572 0.2734 0.3280 0.1764 0.2179 0.2863 0.4242 0 State Total 1.7713 1.0982 1.3830 1.2970 1.0880 1.3070 1.6450 1.1100 1.3300 1.5550 1.0920 1			C 00:-	0.540	7.2644	1.4456	1.8104	1.9964	1.2728	1.5791	2.4847	1.6138	1.9775
Lyon 2.4630 0.6495 1.5284 1.5465 1.4465 1.446 1.876 1.4852 1.6558 2.0715 1.2952 Mineral 1.4415 1.0716 1.2641 1.2402 1.2914 1.4300 1.8667 1.2077 1.5384 1.8711 1.9870 Mye 0.8139 1.2515 1.1777 1.4002 0.9316 1.2007 1.2190 1.2242 1.2362 1.6674 1.0061 S.D. 0.8224 0.5070 0.5247 0.3553 0.2736 0.2736 0.1764 0.2179 0.2262 0.4242 State Total 1.7113 1.0962 1.8219 1.2396 1.5034 2.0424 1.6550 1.0920 1.6910 1.2970 1.0860 1.3070 1.6450 1.1100 1.3300 1.6550 1.0920		70000	\$.c.	0.4764	1.2176	0.8399	1.0039	1.2727	0.9335	1.0962	1.7871	0.7990	1.2501
Mye 0.8139 1.2515 1.2641 1.2642 1.2914 1.4300 1.8667 1.2077 1.5384 1.8711 1.9870 Mye 0.8139 1.5515 1.1777 1.4002 0.9316 1.2007 1.2190 1.2242 1.2262 1.6674 1.0061 S.D. 0.8224 0.5070 0.5257 0.2736 0.2736 0.1764 0.2179 0.2863 0.4242 State Total 1.7113 1.0982 1.3830 1.2396 1.5034 1.5034 2.0424 1.6550 1.0920 1.6910 1.2970 1.0880 1.3070 1.6450 1.1100 1.3300 1.6550 1.0920		2.4630	0.64%	1.5284	1.5693	1.4465	1.4946	1.8576	1,4852	1.6558	2.0715	1.2952	1.6728
Wye 0.8139 1.5515 1.1797 1.4002 0.9316 1.2007 1.2190 1.2434 1.2262 1.6674 1.0061 Rean 1.4793 1.1455 1.3065 1.5999 1.1910 1.3879 1.6425 1.2285 1.4191 1.9764 1.302 S.D. 0.8224 0.5070 0.5247 0.3553 0.2572 0.2736 0.3280 0.1764 0.2179 0.2863 0.4242 State Total 1.7113 1.0982 1.3830 1.2396 1.5034 2.0424 1.550 1.100 1.3370 1.6550 1.0920 1.0920		1.4415	1.0716	1.2641	1.5482	1.2914	1.4300	1.8667	1.2077	1.5384	1.8711	1.0870	1 0101
1.4793 1.1455 1.3085 1.5999 1.1910 1.3879 1.6425 1.2285 1.4191 1.9764 1.3402 0.8224 0.5070 0.5247 0.3553 0.2572 0.2736 0.3280 0.1764 0.2179 0.2863 0.4242 1 1.7113 1.0982 1.3830 1.8219 1.2396 1.5034 2.0424 1.3372 1.6500 2.1573 1.4856 1.5590 1.0910 1.2970 1.5980 1.0880 1.3070 1.6450 1.1100 1.3300 1.6550 1.0920	<u>×</u>		1.5515	1.1797	1.4002	0.9316	1.2007	1.2190	1.2434	1.2262	1,6674	1,0061	1008
0.8224 0.5070 0.5247 0.3553 0.2572 0.2736 0.3280 0.1764 0.2179 0.2863 0.4242 0.2773 1.0982 1.3830 1.2970 1.2970 1.2970 1.2970 1.5980 1.0880 1.3070 1.6450 1.1100 1.3300 1.6550 1.0920	Mear		1.1455	1.3085	1.5999	1.1910	1.3879	1.6425	1.2285	1.4191	1,9764	1.7402	2007
1.7113 1.0982 1.3830 1.8219 1.2396 1.5034 2.0424 1.3372 1.6500 2.1573 1.4856 1.5590 1.0910 1.2970 1.5980 1.0880 1.3070 1.6450 1.1100 1.3300 1.6550 1.0920	.o.s		0.5070	0.5247	0.3553	0.2572	0.2736	0.3280	0.1764	0.2179	0.2863	0.4242	0.3050
1.5590 1.0910 1.2970 1.5980 1.0880 1.3070 1.6450 1.1100 1.3300 1.6550 1.0920	State To		1.0982	1. 3830	1 8340	2307	100						
1.5980 1.0880 1.3070 1.6450 1.1100 1.3300 1.6550 1.0920	11 \$ 100			0.00.	1.0219	1.63%	1.5054	2.0424	1.3372	1.6500	2.1573	1.4856	1.7729
			0.0	1.2970	1.5980	1.0880	1.3070	1.6450	1.1100	1.3300	1.6550	1.0920	1,3280

Rates are per 1,000 estimated population.

Table 18 panel 4
AGE-ADJUSTED DEATH RATES DUE OF CVA IN NEVADA RESIDENTS

		<u>80.08</u>		-	* . O. A.		-	50.06		,-	1980-83	
COUNTY	MALE	FEMALE	B 01%	MALE	FEMALE	ВОТИ	MALE	FEMALE	ВОТН	MALE	FEMALE	BOTH
High Risk Area:												
(2) Churchill	1.0983	0.3859	0.7361	1.0571	1.0832	1.0588	0.6805	0.5507	0.6141	0.3479	0.8732	0.6258
(3) Clark	0.5333	0.4543	0967.0	1.0466	0.9041	0.9699	0.9277	0.8667	0.8549	0.5767	0.6562	0.5937
(8) Numboldt	0.5439	0.5158	0.5142	1.4121	0.6712	1.0368	1.2201	0.7257	0.9729	0.6432	0.4836	0.5439
(9) Lander	0.5986	0.000	0.2828	1.4336	0.7434	1.0349	0.6466	0.1722	0.3970	0.7583	1.0100	0.8820
(10) Lincoln	9677.0	1.5553	1.0078	1.2930	1.2866	1.2403	0.9989	0.3997	0.7011	0.1335	0.2876	0.2085
(13) Mye	0.2776	0.7119	0.5253	0.8044	1.1709	0.9858	0.8892	0.9695	0.9053	0.7982	0.5717	0.6453
(14) Pershing	1.1315	0.6226	0.8882	1.4979	0.4162	0.96.0	1.1279	0.2196	0.6593	0.8213	0.4648	0.6430
(16) Washoe	0.6090	0.5912	0.6005	1,1039	0.8865	0.9847	0.8293	0.7464	0.7783	0.5234	0.5173	0.5230
Mean	0.6552	9.09.0	0.6314	1,2061	0.8953	1,0339	0.9150	0.5813	0.7354	0.5753	0.6081	0.5835
S.D.	0.2830	0.4123	0.2192	0.2254	0.2663	0.0848	0.1873	0.2767	0.1723	0.2230	0.2186	0.1754
Medium Risk Area:												
(5) Elko	0.5393	0.2293	0.3816	0.7859	0.8083	0.8081	0.7793	0.7488	0.7556	0.5835	0.5730	0.5627
(6) Esmeralda	0.000	0.000	0.000	0.7306	3.3323	1.6974	0.2975	1.6785	1.1173	2.8837	0.7091	1.1368
(7) Eureka	0.000	0.000	0.000	0.3974	0.4655	0.4113	1.5496	1.1472	1.3498	0.2879	0.000	0.1674
(17) White Pine	1.4169	0.3144	0.8045	0.9384	0.6689	0.7826	1.2604	0.5680	0.8793	0.9844	0.9187	0.9534
Mean	0.4891	0.1359	0.2965	0.7131	1.3188	0.9249	0.9717	1.0356	1.0255	1.1849	0.5502	0.7051
S.D.	0.5792	0.1392	0.3321	0.1975	1,1689	0.4729	0.4767	0.4262	0.2279	1.0115	0.3407	0.3733
Low Rosk Area.												
(1) Carson City	1.2625	0.5797	0.8682	0.6835	0.6534	0.6674	0.5251	9077.0	0.4557	0.6476	0.5705	0.5976
(4) Douglas	1.1809	0.5678	0.8590	0.3456	9.6806	0.5209	0.1158	0.5034	0.3355	0.3224	0.3940	0.3577
(11) Lyon	0.7996	0.5177	0.6342	0.7518	0.8739	0.8251	0.6473	0.5747	0.6136	0.3814	0.6032	0.4870
(12) Mineral	0.5253	0.7752	0.6465	0.8374	0.9342	0.8959	0.5722	0.7731	0.6719	0.5010	0.3797	0.4501
(15) Storey	1.5946	0.000	0.7735	0.4956	0.000	0.2174	0.0000	1.3821	0.7547	1.7784	0.3809	0.9353
Mean	1.0726	0.4881	0.7563	0.6228	0.6284	0.6253	0.3721	0.7308	0.5663	0.7262	0.4657	0.5655
s.b.	0.3727	0.2593	0.1003	0.1785	0.3323	0.2417	0.2620	0.3459	0.1513	0.5378	0.0996	0.2002
State Total	0.6346	0.5038	0.5654	1.0289	0.8818	0.9492	0.8492	0.7595	0.7833	0.5644	0.5997	0.5730
ILS TOTAL	0672.0	0.6330	0.6850	0.7270	0.5910	0.6500	0.5350	0.4420	0.4820	0.5350	0.3090	0.4080

AGE-ADJUSTED DEATH RATES DUE OF OTHER CAUSES IN NEVADA RESIDENTS Table 18 panel 5

		=	1968-69		ŕ	2.0.6		-	41.5141			3	
COUNTY	MALE		FEMALE	B 01N	MALE	FEMALE	вотн	MALE	FEMALE	B 07H	MALE	FEMALE	ВОТИ
High Risk Area													
(2) Churchill		5.9977	2.9407	4.4884	4.9298	1.5104	3.2095	4.2539	5.40%	3.3082	2.9913	2.2480	2.5971
			2 4870	7217 1	1,5202	2.0328	2.7582	3.3968	1.8495	2.5763	3.5097	2.1461	2.7587
			1 8417	8	7 04.66	27.788	5 3802	5.1135	2.8950	4.0439	4.4395	2.1529	3.3189
			3.00.5	3.50	3,36		7077	7 7100	2 5052	1 080	4.5749	1.1896	2.8935
			₹. %	6.6/30	0.6340	6/20-2	070**			3 3/33	02/2 7	1 5247	2,8826
(10) Lincoln		3.7468	2.7874	3.2056	4.3975	1.8994	3.1078	5.0071	. 868	2.303/	0000	1,754	2 (63)
(13) Nye	7.9	7.9909	4.2486	6.3014	6.1172	4.0033	5.1379	5.2679	2.9396	4.1021	4.5289	2.7902	5.0523
			3.8913	5.1070	8,4838	3.1262	5.7895	5.0361	2.7962	3.9178	5.9225	2.0931	4.0591
			2006	0200.7	3,9199	2.2116	3.0117	3.9382	2.1283	2.%73	3.3669	2.0235	2.6598
	ģ		3 505B	7108 7	\$ 6073	2.5487	4, 1072	7.5906	2.5463	3.5336	4.2133	2.0210	3.1028
				1.07.1	1 7131	777	1 1437	0.6208	0.5507	0.5310	0.8612	0.4499	0.4906
Medium Risk Area:	Irea:											4000	2772 2
(S) Elko	5.5	5.9855	2.8833	4.3688	4.5143	1.9001	3,1907	6.5902	2.8434	4.6900	\$.0.\$	6031.7	
		9, 7102	4.2716	6.5551	4.0251	1,3143	2.7398	7.6490	3.0740	5.3978	8.1800	2.5552	5.4732
	<u> </u>	1772 01	7 (A.8.1	7 0087	3.6972	2.2840	3.0197	3.1667	2.4478	2.8453	2.2722	1.47%	.93
		8576 7	24.78	3 2434	2010.7	1.8241	2.8804	5.0316	2.1323	3.5009	4.0614	2.7657	3.4086
		7.5440	2 47.27	2001	7 0667	1.8306	2.9577	5.6094	2.6244	4.1085	4.7821	2.2303	3.5603
CRUE C		2 543	7027	1 5,18	2015	1571	0.1670	1.6899	0.3617	0.9957	2.1443	0.4919	1.2420
8.0.		9 10	0.10	2									
Low Risk Area:											!		
(1) Careca Lity		6, 3782	9190.7	5.1513	3.7259	1.9727	2.7335	3.3905	1.9190	2.6482	3.5763	וגוז.ו	7.0032
		5715 7	2, 1053	3.2634	3.4152	1,5216	2.4481	3.5155	2.0442	2.7194	2.4256	1.6459	2.00%
		6 0710	2807 6	7677 7	7510.2	2.9746	3.9863	7009.7	2.7366	3.6057	3.9937	2.3085	3.1067
		C 0063	7000	3329 7	6 0122	3, 1118	8759.7	4.1717	5.6249	3.4134	6.1252	2.8945	4.5734
		7 1101	, 40 Y	S 9828	7 7060	4.2180	5.8343	6.7518	4.5595	5.6365	2.4370	•	1.8665
(15) Storey	;	0090	2 4200	132.7	7760	2000	71101	7.4860	2.7768	3.6046	3.7116	1.9799	2.8320
 	S.D. 1.0	1.0851	1.1710	0.8848	1.8434	0.9617	1.2476	1.2155	0.9461	1.0829	1.3566	0.5548	0.9765
	\ \	1	9	7 67/7	2 0600	2 1231	1 0111	1 787.1	2.0244	2.8554	3.5519	2.0998	2.7793
State Total		2.0402	6.7819	2.8/42	3.7307	7.1461	7.0.0	;					

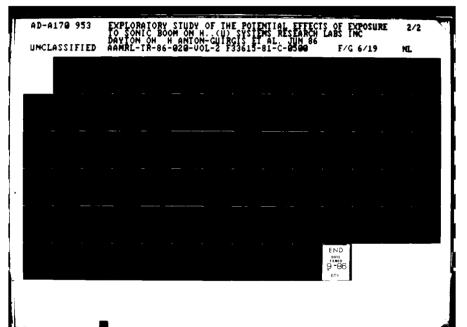
Rates are per 1,000 estimated population. U.S. total not available.

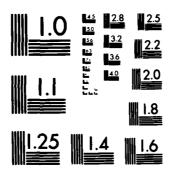
Table 19

Mean yearly day-night average C-weighted sound level (in decibels) over the designated time periods between 1968-1983

34	Cldn		23.0	36.6	37.9	24.4	13.7	34.7	30.7	37.8	34.3	47.2	28.0	31.0	37.0	43.5	24.7	36.0	33.3	33.7	2	Total denotes	color into	arithmetic average	•							
period from 1980 - 1983	Cldn		24.0	39.8	40.2	26.2	37.2	37.5	38.1	44.1	40.6	8.64	28.4	34.1	39.6	44.8	25.8	38.5	39.6	37.0	MAXIMUM		44.79999	45.400062	48.900002	49.799999						
period from 1975 - 1979	Cldn		24.3	7:1	• :•	24.1	36.7	36.4	34.7	39.8	39.4	48.9	28.8	32.8	40.0	43.5	26.0	35.8	38.5	36.0	MINIMUM		17.200001	26.400000	24.100000	24.000000						
period from 1970 - 1974	Cldn	-	26.4	35.5	35.3	27.8	13.7	36.9	29.7	35.4	33.1	45.4	31.2	30.5	35.4	41.3	28.2	35.5	31.0	33.7	STANDARD	DEVIATION	7.880248	4.716554	6.739595	6.931695						
period from 1968 - 1969	Cldn	}	17.2	29.6	34.7	19.5	27.1	27.8	20.1	31.9	24.1	4.8	23.7	26.4	33.1	44.2	18.9	34.2	24.2	28.3	MEAN		28.322222				ANK O	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20:0	0.44	54.0	62.0
	County	1	Carson City	Churchill	Clark	Selguon	Elko	Esmeralda	Eurela	Humboldt	Lander	Lincoln	Lyon	Mineral	Nye	Pershing	Storey	Washoe	White Pine	Total	VARIABLE	NO. NAME	l time!	2 time2	1 Lines	4 time4	2 104 1041	VAXIABLE VAXIABLE		2 times	3 Lime3	timed

FRIEDMAN TEST STATISTIC = 33.20. LEVEL OF SIGNIFICANCE = 0.0000 ASSUMING CHI-SQUARE DISFRIBUTION WITH 3 DEGREES OF FREEDOM KENDALL COEFFICIENT OF CONCORDANCE = 0.6148





MICROCOPY RESOLUTION TEST CHART NATIONAL BUREAU OF STANDARDS-1963-A

Table 20

Age-adjusted death rates due to all diseases (per thousand per year) and the corresponding CLIDN values (in decibels) over the designated time periods between 1968-1983

				,			•			
	1968 -	1969 -	period 1970 -	1974	period from 1975 - 1979	from 1979	period from 1980 - 1983	[rom 983		
Period	;		1				,		Total	Total
councy	CIdn	Rate	C1dn	Rate	C]d	Rate	Clda	Rate	Cldn	Rate
		1		1		1	ļ			
Carson City	17.2	11.5347	26.4	4.4392	24.1	7.5784	24.0	8.1858	23.0	8.9845
Churchill	29.6	4.4217	V	101		5110			36.6	1.4271
Clark	34.7	7.5139		7.9846		7.9646	40.2	8.3566	37.9	7.9574
Douglas	19.5	7.5770	27.8	4.4894	24.1	6.8400		5.9287	24.4	6.7088
Elko	27.1	9.1134	11.7	8.5765	36.7	9.7314	37.2	7.9284	33.7	0.0374
Esmeralda	27.8	8.5340	36.9	9.0744	36.4	11.4959		11.4880	34.7	10.1481
Eurela	20.1	13.1697		7.4404		9.0708	38.1	6.8018	30.7	9.1207
Humboldt	31.9	11.0671		11.4836		10.1409		8.2718	37.8	10.2409
Lander	24.1	11.1938		10.5163		10.0417		9.0120	34.3	10.1910
Lincoln	4.9	10.2262	45.4	8.3638	48.9	B.6684	49.B	9086.9	47.2	8.5597
Lyon	23.7	8.7342	31.2	9.2902	28.8	0.2436		8.1015	28.0	8.5924
Mineral	26.4	9.1544	30.5	10.3246	32.8	8.1845		9.6888	31.0	9.3381
Nye	33.1	10.5597	35.4	10.2053	40.0	9.3090		8.0236	37.0	9.5244
Pershing	44.2	11.7248	41.3	12.4909	43.5	11.0070	•	0.9170	43.5	11.0349
Storey	18.9	15.5439	•	11.9249	26.0	14.1241		0.32R2	24.7	12.4803
Washoe	34.2	9.2076		0.7593	35.8	0.6436		7.7017	36.0	8.5781
White Pine	24.2	7.3722		8.3882	38.5	8.6390	_	9.0032	33.3	8.3507
Total	,		;		;				;	
10(8)	28.3	28.3 10.0969	33.7	9.1498	36.0	9.3291	37.0	8.3005	13.7	9.2691
VARIABLE	MEAN		STANDARD	۵	MINIMOM	Ī	MAXIMUM	.		
NO. NAME			DEVIATION	20						
l time!	10.096444	111	2.086945	5	7.372000	00	15.543000	000		
2 time2	9.349278	278	1.563469	69	6.489000	00	12.490000	000		
3 time3	9.328668	1668	1.663909	39	6.840000	00	14.124000	000		
4 time4	8.300056	950	1.181435	35	5.928000	00	11.488000	000		
VARIABLE	RANK									
NO. NAME	MIS									
	57.0									
2 time2	51.0									
3 time3	43.0									
t inet	29.0									

3 DEGREES OF FREEDOM FRIEDMAN TEST STATISTIC = 14.66669 LEVEL OF SIGNIFICANCE = 0.0021 ASSUMING CHI-SQUARE DISTRIBUTION WITH RENDALL COEFFICIENT OF CONCORDANCE = 0.27161

Table 21

Age-adjusted death rates due to cardiovascular disease (per thousand per year) and the corresponding CLDN vales (in decibels) over the designated time periods between 1968-1983

	1961 - 1961	1970 - 1974	6/6] = 6/6]	1961 - 0061	Total Total
County	Cldn Rate	Cldn Rate	Cldn Rate	Cldn Rate	_
Carson City	17.2 3.3675	26.4 3.2120	24.3 2.8870	24.0 3.1836	23.0 3.1625
Church! 11	• •	35.5 3.2906		39.8 3.2471	36.6 3.0434
Clark					•
Douglas			-		24.4 2.6211
Elko	27.1 3.3717				
Esmeralda			-	37.5 3.8099	
Eurela	20.1 5.4776	29.7 2.1390	34.7 4.2304	38.1 3.4234	30.7 3.8176
Humboldt		35.4 3.7686	19.8 3.3891	44.1 2.7978	37.8 3.2497
Lander	24.1 3.4330	11.1 4.0687		40.6 2.7600	
Lincoln	44.8 4.3320		48.9 2.7698	49.8 2.6287	47.2 3.2020
Lyon		31.2 2.9672			-
Mineral		30.5 3.3440	32.8 2.5273		
Mye		35.4 2.7689	40.0 3.0755	39.6 2.4162	
Pershing	44.2 4.0505	41.3 3.4443	43.5 4.5968		43.5 3.5913
Storey	10.9 5.3314	28.2 3.4092	26.0 6.4140	25.8 3.8965	
Washoe			35.8 3.1127	• •	36.0 3.0138
White Pine	24.2 2.2690		38.5 3.1519		
Total	28.3 3.1242	33.7 3.1849	36.0 3.4503	37.0 2.9166	13.7 3.1690
VARIABLE	MEAN	STANDARD	MINIMUM	MAX 1 MUM	
NO. NAME		DEVIATION			
l timel	3.124194	1.159715	0.709100	5.477600	
2 time2	3.184861	0.456731	2.139000	4.069700	
3 time3	3.450306	0.995845	2.351000	6.414000	
	2.916578	0.465043	2.273500	3.896500	
_	RANK				
NO. NAME	NOS.				
times .	52.0				
3 time3	53.0				
4 time4	31.0				

3 DEGREES OF FREEDOM

FRIEDMAN TEST STATISTIC = 10.33334 LEVEL OF SIGNIFICANCE = 0.0159 ASSUMING CHI-SQUARE DISTRIBUTION WITH RENDALL COEFFICIENT OF CONCORDANCE = 0.19136

86

Table 22

Age-adjusted death rates due to hypertension (per thousand per year) and the corresponding CLDN values (in decibels) over the designated time periods between 1968-1983

		and bedieve	merind from	neriod from	
	1968 - 1969	1970 - 1974			
					Total Intal
County	Cldn Rate				
	1		1	1	
Carson City	17.2 0.0538	26.4 0.0158	24.3 0.0084	24.0 0.0235	23.0 0.0254
Churchill	_	_	41.4 0.0277	-	
Clark	_				_
Douglas		27.8 0.0000	24.1 0.0000	26.2 n.0099	
Elko	_				33.7 0.0788
Esmeralda	27.8 0.0000			37.5 0.0000	_
Eurela				38.1 0.0000	
Numboldt	31.9 0.0924	35.4 0.0710		44.1 0.0212	_
Lander		33.1 9.0000	19.4 0.0000	40.6 0.0000	34.3 0.0000
Lincoln					
Lyon		31.2 0.0670	_		28.0 0.0434
Mineral	_	_	12.8 0.0335	34.1 0.2082	31.0 0.0604
Nve		35.4 0.1120		39.6 0.0000	37.0 0.0280
Pershing	_	41.3 0.1308	43.5 0.0000	44.8 0.0000	43.5 0.0327
Storey	18.9 0.0000	28.2 0.0000	26.0 0.0000	25.8 0.0000	
Washoe	34.2 0.0150	35.5 0.0197	35.8 0.0095	_	_
White Pine	24.2 0.0000	31.0 0.0000	38.5 0.0181	39.6 0.0470	33.3 0.0163
Total	28.3 0.0331	13.7 0.0350	36.0 0.0117	37.0 0.0250	33.7 0.0262
CABLABLE	MEAN	STANDARD	MUNINIM	MAXIMUM	
NO. CAR		DEVIATION			
	0.033133	0.053278	0,00000	0.185100	
2 time2	0.034961	0.043285	0.00000	0.130800	
	0.011739	0.013887	0.00000	0.046500	
4 time4	0.024994	0.048250	0.00000.0	0.208200	
VARIABLE	RANK				
NO. MAME	MOS				
	48.0				
2 time2	52.0				
3 time3	35.5				
4 times	44.5				

FRIEDMAN TEST STATISTIC = 4.95001 LEVEL OF SIGNIFICANCE = 0.1755 ASSUMING CHI-SQUARE DISTRIBUTION WITH RENDALL COEFFICIENT OF CONCORDANCE = 0.09167

3 DEGREES OF FREEDOM

Table 23

Age-adjusted death rates due to cancer (per thousand per year) and the corresponding CLDN values (in decibels) over the designated time periods between 1968-1983

	•	,			•		•			
	period from 1968 - 1969	f rom 1969	period 1970 -	from	per 10d 1975 -	6 trom	per10d 1980 -	- 1983 - 1983		
									Total	Total
County	Cldn	Rate	cldn	Rate	Cldn	Rate	Cldn	Rate	Cld	Rate
1				1				1		
Carson City	17.2 2	2.0940	26.4	.8104	24.3	1.8791	24.0	1.9775	23.0	1.8653
Churchi 11		1.7566	35.5	.5819	7.	1.7659	39.8	1.6911	36.6	1.7004
Clark		1.2572	35.3	1.4894	=	1.6554	40.5	1.8597	37.9	_
Douglas		0.4764	27.8	1.0039		1.0962	26.2	1.2501	24.4	_
Elko		0.8672		1.1913	36.7	1.4572	37.2	1.3308	33.7	
Fsmeralda		1.2698	_	0.9183		0.5124	37.5	1.0682	34.7	
Eurela	20.1 0	0.6835		1.8704		0.6453	38.1	1.2158	30.7	1.1038
Humboldt		1.4667		1.2269	39.8	1.7114	-:	1.5899	37.8	1.4987
Lander		0.7985	-	0.9500	39.4	1.5033	40.6	2.4736	34.3	1.4314
Lincoln		1.4958		0.9384	48.9	1.8339	49.8	1.2608	47.2	1.3822
Lyon		1.5284		1.4946	29.8	1.6558	28.4	1.6728	28.0	1.5879
Mineral		1.2641		1.4300	32.8	1.5384	7.	1.9393	31.0	1.5430
Nye		1.1797	15.4	1.2007	40.0	1.2262	39.6	1.3098	37.0	1.2291
Pershing	-	.6790		2.1663	43.5	1.8332	#. •	1.9415	43.5	1.9050
Storey	18.93	.4562		2.4640	26.0	1.3189	25.8	1.6299	24.7	2.2172
Washoe	_	.6250	_	1.5696	35.8	1.7756	38.5	1.7012	36.0	1.6679
White Pine	24.2 1	1.0351	31.0	9015.	38.5	1.0887	39.6	1.6447	33.3	1.3198
Total	28.3 1	1.4078	13.7	1.4598	36.0	1.4233	37.0	37.0 1.6213	33.7	1.4781
CABIABIE	MFAN		CTANDARD	5	H	1	HAX	MAXIMIM		
5842			NOT A 1 VICE	9 6	:	<u>.</u>				
	. 4030					001217	•	466300		
	1,0000	7 8	7//2000			0000		3 464000		
	445554	3 3	118785		0.51300	0076	, -			
	((2))						- 1	22700		
t camet	1.621333	33	0.347232	32	1.068200	8 2 0 0	7.4	2.473600		
VARIABLE	RANK									
NO. NAME	1110									
	15.0									
2 times	0.80									
	78.0									
A CLIBER	0.65									
	; , , ,									

3 DEGREES OF FREEDOM FRIEDMAN TEST STATISTIC * 11.80002 LEVEL OF SIGNIFICANCE * 0.0001 ASSUMING CHI-SQUARE DISTRIBUTION WITH KENDALL COEFFICIENT OF CONCORDANCE * 0.21852

Table 24

Age-adjusted death rates due to cerebrovascular accident (per thousand per year) and the corresponding CLDN values (in decibels) over the designated time periods between 1968-1983

	period from	period from	period from	period from	
	6961 - 6961	P/61 - 0/61		1861 - 0861	Total Total
County	Cldn Rate	Cldn Rate	Cldn Rate	Cldn Rate	. Cldn Rate
1			}	1	}
Carson City	17.2 0.8682	26.4 0.6674	24.3 0.4557	24.0 0.5976	23.0 0.6472
Church!!!				_	_
Clark	34.7 0.4960				37.9 0.7286
Douglas		_			_
Elko			36.7 0.7556		_
Esseralda	-				
Eurele Stiller		_			
Humboldt.	_		_	_	_
Lander	_		-		
Lincoln			48.9 0.7011		_
Lyon			28.8 0.6136	28.4 0.4870	28.0 0.6400
Nineral	_	_	32.8 0.6719	_	31.0 0.6661
Nye		35.4 0.9858			_
Pershing	44.2 0.8882	41.3 0.9600	43.5 0.6593	44.8 0.6430	43.5 0.7876
Storey	10.9 0.7735	28.2 0.2174	26.0 0.7547	25.8 0.9353	24.7 0.6702
Washoe	34.2 0.6005	35.5 0.9847	35.8 0.7783	38.5 0.5230	36.0 0.7216
White Pine	24.2 0.8045	31.0 0.7826		39.6 0.9534	-
Total	28.3 0.5893	33.7 0.8881	36.0 0.7539	37.0 0.6068	33.7 0.7095
VARIABLE	MEAN	STANDARD	HININIH	MAXIMUM	
NO. NAME		DEVIATION			
l time!	0.589317	0.284117	0.00000	1.007800	
2 time2	0.888078	0.322201	0.217400	1.697400	
) time	0.753900	0.246578	0.335500	1.349800	
4 time4	0.606833	0.249157	0.167400	1.136800	
VARIABLE	RANK				
NO. NAME	SUM				
i timel	37.0				
2 time2	63.0				
3 time3	43.0				
4 time4	37.0				
FRIEDMAN TEST STATISTIC =	STATISTIC = 15.20001	1000			
LEVEL OF SIGNI KENDALL COEFFI	LEVEL OF SIGNIFICANCE = 0.0017 ASSUMING CHI-SQUARE DISTRIBUTION WITH KENDALL COEFFICIENT OF CONCORDANCE = 0.28148	NSSUMING CH1-50 VCE = 0.28148	UARE DISTRIBUTI	ON WITH 3	DEGREES OF FREEDOM

Table 25

Age-adjusted death rates due to other diseases (per thousand per grant) and the corresponding CLDN values (in decibels) over the designated time periods between 1968-1983

				•	
	period from 1968 - 1969	period from 1970 - 1974	period from 1975 - 1979	period (rom 1980 - 1983	
					-
County	Cldn Rate	Cidn Rate	Cidn Rate	Cidn Rate	Cldn Rate
1	1				
Carson City	17.2 5.1513	26.4 2.7335	24.3 2.6482	24.0 2.6035	23.0 3.2841
Church!!!	29.6 4.4884	35.5 3.2095	41.4 3.3082		
Clark		35.3 2.7582	. •	40.2 2.7587	37.9 2.8767
Douglas	_				
Elko	27.1 4.3688		36.7 4.6900		
Esmeralda	•			_	34.7 5.0415
Eurela		29.7 3.0197			
Humboldt	31.9 5.9506	-	-	44.1 3.3189	
Lander	24.1 6.6795	33.1 4.4626		40.6 2.8935	
Lincoln	44.8 3.2056		٠.		
Lyon				28.4 3.1067	28.0 3.8228
Mineral	•	30.5 4.6548	32.8 3.4134	-	-
Nye	33.1 6.3014	35.4 5.1379	40.0 4.1021	19.6 1.6521	•
Pershing	44.2 5.1070		43.5 3.9178	•	
Storey	18.9 5.9828	28.2 5.8343	26.0 5.6365	25.8 1.8665	-
Washoe	34.2 4.0030	35.5 3.0117		~	
White Pine	24.2 3.2636	31.0 2.8804	38.5 3.5009		
Total	28.3 4.9425	33.7 3.7821	36.0 3.6898	37.0 3.1308	13.7 3.8863
5 5 6 5 6 5 7	246	COACOAL	2	HIH X	
TOTAL CAME	200	DEVIATION			
	4.942472	1.248447	1,205600	7.008700	
2 time2	3.782061	1.138001	2.448100	5.834100	
	3.689783	0.875048	2.576300	5.636500	
4 time4	3.130772	0.909267	1.866500	5.473200	
VARIABLE	RANK				
024					
Z	FUS				
	0.99				
2 time2	46.0				
3 time3	41.0				
11364	27.0				

3 DEGREES OF FREEDOM FRIEDMAN TEST STATISTIC = 26.06668 LEVEL OF SIGNIFICANCE = 0.0000 ASSUMING CHI-SQUARE DISTRIBUTION WITH KENDALL COEFFICIENT OF CONCORDANCE = 0.48272

Table 26

CORRELATION BETWEEN CRUDE DEATH RATE AND SOMIC BOOM EXPOSURE

,	אנו	ALL TOWNSHIPS	vs	Death	MIGH RISK AREA (Cidh => 36.00 dB) Death Rate (8.669 +/· 2.531)	MIGH RISK AREA (Cldn => 36.00 dB (Rate (8.669 +/+ ;	2.531)	(31.00 Death	MEDIUM RISK AREA 31.00 d8 <= Wean Cldn <36.00 Death Rate (7.853 +/- 2.812)	MEDIUM RISK AREA <= Mean Cldn <3. te (7.853 +/- 2.4	MEDIUM RISK AREA (31.00 dB <= Wean Cldn <36.00 dB) Death Rate (7.853 +/- 2.812)	Death	LOW RISK AREA (Cidn < 31.00 dB) Death Rate (7.371 +/- 3.092)	LOV RISK AREA (Cidn < 31.00 dB) Rate (7.371 +/- 3	3.092)
- 1	<u> </u>	4	p.value	2		4_	p.value	2		4	p.value	2		ا م	p-value
ALL AIRCRAFT: 868	. 5 7			3				243				1 %			
Event Pressure Cldn	0.084 .0.067 0.126	0.007 0.004 0.016	0.013 0.048 <0.001		0.098 -0.124 0.032	0.010 0.015 0.001	0.070 0.022 0.557		·0.058 ·0.132 0.015	0.003 0.017 <0.001	0.368 0.039 0.810		0.155 -0.152 0.234	0.024 0.023 0.055	0.009 0.010 0.001
FIGNTER: 868	æ			130				\$2				713			
Event Pressure Carpet Cldn	0.078 0.034 0.073	0.004 0.001 0.005 0.005	0.021 0.316 0.031 0.060		0.184 0.060 0.005 0.008	0.034 0.004 <0.001 <0.001	0.034 0.498 0.954 0.925		0.517 0.070 0.077 0.481	0.267 0.005 0.006 0.231	0.005 0.732 0.764 0.010		.0.032 .0.044 0.088	0.001 0.002 0.008 0.008	0.386 0.235 0.018
SR71: 868	a)			234				256				378			
Event Pressure Carpet Cidn	0.177 0.067 0.056 0.201	0.031 0.034 0.063 0.040	0.001 0.049 0.101 0.001		0.272 .0.170 0.149 0.078	0.074 0.029 0.022 0.006	<0.001 0.009 0.022 0.236		0.059 0.074 -0.091 0.052	0.003 0.005 0.008 0.003	0.346 0.234 0.144 0.403		0.247 0.146 0.107 0.321	0.061 0.021 0.011 0.103	<0.001 0.004 0.036 <0.001

M * Sample 512e f * Correlation Coefficient f * Goodness-of-fit Cldn = Day-Wight C-weighted average sound level

Table 27 (page 1)

ASSOCIATION BETWEEN AGE-ADJUSTED DEATH RATES AND SONIC BOOM EXPOSURE NEVADA: 1969-1983

	-	CARD I OVÁSCIA. AR	ASCUR AR	E	HYPERTENSION	5		CANCER			Š			OTHERS		•	ALL CAUSES	s .
Death Rate (Nean +/- S.D.) per 1,000 popula Nale: 3,9341 +/- 0,135		2er 1,00	00 populet(Ë	188	0.0251 +/- 0.0110	,	.9332	1,9332 +/- 0.1759	•	0.7693	0.7693 +/- 0.1830	e	4.0834	4.0834 +/- 0.5740		10,7451 +/· 0.3560	0.3560
Female:		2.0076	2.0076 +/- 0.2134		1.0212 +	0.0212 +/- 0.0044		2002	1.2902 +/- 0.1413		0.6862	0.6862 +/- 0.1452	?:	2.2621	2.2621 +/- 0.3031		6.2672 +/- 0.1453	0.1453
Both:	••	2.8981	2.8981 +/- 0.1360		.0227 +	0.0227 +/- 0.0058	•	1.5773	5773 •/· 0.1473	F.	0.7177	0.7177 +/- 0.1597	26	3,1301	3.1301 +/- 0.4377		8.3460 +/- 0.1515	. 0.1515
		4	r p-value		۳.	p-value		<i>"</i> "	p-value	L		p-value		1/6	p.value	٠	٠.	en lev-d
ALL AIRCRAFT (N=6B):																		
Hole:																		
Event .0	0.069	900.0	0.464	0.223	0.030	0.063	0.050	0.003	0.685	.0.07	9.00	0.518	-0.126	0.016	6.29 82.0	.0.148	0.022	0.223
Pressure .	-0.111	0.012	0.362	0.013 4	¢0.001	0.916	0.113	0.013	0.352	0.002	.0.00	0.968	0.231	0.063	0.036	.0.245	0.060	0.040
•	0.002	900.0		901.0	0.012	0.377	.0.058	0.003	0.633	0.016	.0.00	969.0	-0.174	0.030	0.151	.0.168	0.028	0.165
female:																		
Event	0.059	0.003	0.626	0.143	0.020	0.240	0.038	0.001	0.756	0.063	0.004	0.607	·0.189	0.036	0.118	.0.048	0.005	969.0
Pressure .	0.000	ش.001	0.943	.0.129	0.017	0.288 (0.070	0.005	0.567	0.071	0.003	0.561	-0.273	0.073	0.022	.0.125	0.016	0.304
6	0.029	0.001		.0.069	0.005	0.572 (.0.030	0.001	0.807	0.191	0.036	0.114	.0.233	0.086	0.013	-0.112	0.013	0.355
Both:																		
Event .(-0.045	0.002	0.70	0.073	9.00	0.539	-0.022 <0.001	:0.001	0.854	0.001	0.001 <0.001	0.993	.0.165	0.027	0.173	-0.141	0.020	9.244
Pressure .	0.120	0.014	0.324	-0.057	0.003	0.642	-0.037	0.001	0.765	0.015	0.015 <0.001	0.905	.0.274	0.075	0.022	.0.258	0.067	0.031
£ 13	650	500			5	500	2	5	711	171 0	***		;;	7,0				

FIGNTER (N=68):

j Hale:																		
l Event	.0.087	0.008	0.477	0.224	0.050	0,063	.0.05\$	0.003	0.650	.0.082	0.007	0.500	.0.124	210.0	40¥ 0	.0 472	5	ì
Pressure	0.021 <0.001	<0.001	0.863	0.100			.0.189		0.118	0.151	0.023	0.214	•		966		770.0	0.624
Cerpet	.0.009 <0.001	<0.001		0.188		0.120	-0.119		0.326	0.141	0.050	0.246			78.	90.0	100.0	6.45
£ 55	.0.073	0.005		0.219	0.048		0.135	0.018	0.265	0.031	0.001	0.738			27.0	20.0	20.0	0.000
Female:																9	•	
Event	0.057	0.003	0.642	-0.143	0.020	0.238	0.036	0.001	0.765	0.063	0.004	909.0	-0.186	0.035	124	070	200	104 0
Pressure	-0.00	<0.001	0.952	0.054	0.003	0.660	.0.115	0.013	0.345	0.385	0.148	<0.001	0.080	900.0	0.513	0.028	0.00	717
Carpet	0.034	0.001		0.122	0.015	0.317	-0.126	0.016	0.300	0.346	0.120	0.003			0.520	0.039	0.002	072 0
€ 2	0.021	<0.00		-0.043	0.005	0.727	.0.038	0.001	0.73	0.226	0.051	0.060			0.370	-0.02	¢0.001	0.854
Both:															,			
Event	-0.045	0.002	0.714	0.075	9.00	0.540	.0.027	0.001	0.825	0.005	<0.001	0.984	.0.163	0.027	0,170	171 0.	0/0	77C U
Pressure	-0.014 <0.001	c0.001	0.90	0.093	0.00	0.445	0.170	0.029	0.160		0.132	0.005	•		188		20.00	700
Carpet	·0.006 <0.001	·0.001	0.95	0.189	0.036	0.117	-0.136	0.018	0.261	0.348	0.121	0.003			272		00.00	0.076
د اع	.0.089	0.008	97.0	0.125	0.016	0.306	-0.113	0.013	0.352	0.180	0.032	0.136			0.410	0.110	0.012	0.368
SR71 (N=68)																		
•																		
Male:																		
Event		0.00	0.428	0.005	<0.001	0.988	0.209	970.0	0.083	0.124	0.015	0.309	090.0	2005	22	5 CO D.	,	730 0
Pressure		0.003	0.658	-0.19	0.038	0.108	0.064	0.004	0.599	.0.054	0.003	0.657				37.0		0.000
Carpet	0.025	0.001	0.837	0.215	0.046	0.074	.0.092	0.008	0.448	0.080	900	0.512				3.7.0	20.0	7.00
ct o.	.0.012	<0.001	0.919	-0.044		0.716	.0.029	0.00	0.815	0.078	900	0.537			200.0	0.634		50.0
Female:															8	10.0	200.0	0.70
Event		0.010	0.404	0.016	*0.001	898.0	0.055	0.003	0.651	.0.00.	*0.001	0.973	-0.112	0.013	0.358	110	5	7100
Pressure		900.0	0.515	0.073	0.005	0.552	0.166	0.028	0.170	-0.111	0.012	0.359			0.013		0 0	10, 10
Carpet		0.014	0.332	0.097	0.00	0.428	0.174	0.030	0.150	0.105	0.011	0.387				0.067	700 0	0.583
رزه. دره	0.037	0.001	0.761	0.024	0.001	778.0	-0.034	0.001	0.778	0.127	0.016	0.296				.0.0%	0.010	0.418
: u	;																	
Event	.0.029	0.001	0.811		c 0.001	0.960	0.166	0.028	0.169	0.125	0.016	0.305	.0.081	0.007	0.505	. 0.005	<0.001	296.0
Pressure	-0.016 <0.001		0.895	.0.164	0.027	0.174	0.143	0.020	0.238		0.025						0.055	0.00
Carpet			0.816	0.194	0.038	0.109	-0.164	0.027	0.175							21,2	270	200
€ 13	0.028	0.001	0.820	-0.023	0.001	0.851		<0.001	0.933	0.152		0.209			-	.0.04	200	200
																!		

Table 28 (page 1)
ASSOCIATION BETWEEN AGE-ADJUSTED DEATH RATES
AND SONIC BOOM EXPOSURE IN MIGH RISK AREA
NEVADA: 1969-1983

		CARDIG	CARDIOVASCULAR	*	MYPERTENSION	STON		CANCER			Š			OTHERS			ALL CAUSES	NSE S
	•	4	a p-value	-	٩ _	p-value	•	•_	p-value	L	1_	p.value	L	4	p-value	L	٦	r a p-value
ALL AIRCRAFT (N=34):	<u></u>											<u> </u>						
Hele:																		
Pressure	D. 1.0.	0.0% 0.0%	0.029 0.324		0.071	0.116	.0.03	0.00	0.593		0.056	0.354	.0.143	0.020	807.0	.0.232	0.024	0.175
£13	.0.301	8.8	0.074	0.113	0.013	0.514	0.248	0.062	0.181 0.146	0.018	0.00	0.919	·0.125	0.016	0.470	.0.309	0.058	0.066
femele:	,																	
Promise	er.9	0.013	0.500	0.244	0.060	0.152	0.045	0.005	0.797	.0.024	0.001	0.892	.0.240	0.058	0.160	.0.080	9.00	0.647
- March 1	741.0.		21.0	997.0	0.062	0.091	9.13	0.012	0.521	.0.07	0.002	9.676	.0.191	0.036	0.267	.0.206	0.042	0.231
5	0.159	0.038	0.272	-0.271	0.073	0.110	0.185	0.034	0.283	.0.206	0.042	0.229	.0.260	0.068	0.126	.0.074	0.002	0.672
Both:																		
Event	.0.0%	0.00	0.587	0.140	0.020	0.417	.0.067	9.00	0.700	.0.115	0.013	0.505	-0.207	0.043	0.227	.0.236	0.056	0.167
Pressure	-0.310	9.0			0.011	0.545	0.109	0.012	0.530	-0.107	0.011	0.537	.0.164	0.027	0.341	0.316	0.100	0.061
6	.0.189	0.036		0.005	¢0.001	0.976	0.250	0.063	0.142	-0.225	0.051	0.189	.0.324	0.105	0.053	.0.305	0.093	0.070
FIGHTER (#=12):																		
Male:																		
Event	0.130		0.665	0.180	0.032	0.545	0.091	0.008	0.763	-0.176	0.031	0.555	.0.187	0.035	0.531	.0.124	0.015	A7A 0
Pressure	-0.318		0.274	-0.442	0.195	0.115	-0.188	0.035	0.529	0.086	0.007	77	K .	0 076	071		` E	
Carpet	-0.455		0.103	.0.589		0.025	-0.335	0.112	0.247	.0.055	0.003	9.85	2	8	717		20.00	6.75
5	0.202	0.041	0.497	.0.055	0.003	0.856	175	726 0	150							3 1		

Female:																			_
Event	0.508	0.258		.0.433	0.187	0.124			0.586	0.151	0.023	0.614	.0.527	0.278	0.052	0.180	0.036	0.523	_
Pressure	.0.087	0.008		0.140	0.020	0.641	0.303		0.300			0.515			0.688	0.100	0.010	0.739	
Larpet	0.011	*0.001		-0.392	0.154	0.169			0.110			0.051			0.580	.0.149	0.022	0.619	_
rig.	0.431	0.186	0.127	-0.365	0.133	0.204		0.058	0.416			0.394	.0.858	0.736	<0.001	-0.480	0.230	0.083	
Both:																			
Event	0.303			787.0	0.007	0,783	0.164	0.027	0.584	0.195	0.038	0.513		0.123	0.225	0.203	0.041	767.0	_
Pressure	0.263			0.388		0.174	0.00	0.008	0.763	-0.107	0.011	0.722		0.051	877.0	20.0	0.005	0.809	
Carpet	.0.326			.0.633		0.013	0.073	0.005	0.809	.0.400	0.160	0.160	0.111	0.012	9.712	.0.155	920.0	0.605	_
£ 13	0.234	0.055	0.429	.0.124		0.678	0.495	0.245	0.072	-0.196	0.038	0.511	0.744	0.554	0.001	-0.542	762.0	770.0	
SP71 (N=26):																			
Male:																			
Event		0.266		0.246	0.061	0.200	0.642	0.412	٠٥.00	0.030	0.001	0.882	.0.00	<0.001	996.0	-0.109	0.012	0.583	_
Pressure		*0 .001		.0. 51			0.018		0.927	0.008 <0.001	c0.001	0.970	-0.142	0.020	0.473	0.076	900.0	0.702	_
Carpet		0.003		0.181			-0.103		909.0	0.006 <0.001	*0.001	876.0	0.178	0.032	0.368	0.059	0.003	0.767	_
cl g.		.0.165 0.027	737.0	0.120			0.644		<0.001	-0.019 <0.001	¢0.001	0.925	.0.07	0.00	0.700	720.0	0.001	906.0	
Female:																			
Event		0.112		0.123	0.015	0.537	0.049	0.005	90.80	-0.333	0.111	0.083	0.338	0.114	0.078	0.283		0.146	_
Pressure		0.038		0.231			0.263	0.069	0.178	.0.211	0.045	0.285	.0.167	0.028	0.399	-0.230		0.242	_
Carpet		0.038		0.230			.0.309	0.095	0.110	0.227	0.052		0.160	0.026	0.419	0.212	0.045	0.282	
C C	0.316	0.100	5:105	.0.034			0.237		0.276	.0.207	0.088	0.126	0.177	0.031	0.370	0.286		0.141	
goth:																			
Event	0.20	8.0°0	ن	(i) 2 00)	0,0,0	9.312	0.422	0.178	720.0	0.186	0.035	0.346	0.09		0.620	0.031		0.878	
Pressure	0.1%	0,155 0,019	969.0				0.192			0.238		0.225	-0.157	0.025	0.430	0.163	0.027	0.412	_
Carpet	0,080	10.0	2 2 C				0.277			0.245	0.060		0.184			0.139		0.483	_
다.	0,057	: :	<u>;</u>	ر اخ ان			0.602	0.362	£0.001	-0.195		0.322	0.005	900	0.00	0.153		0.441	_
;																			

The ago adjusted death rates uned in the new year are presented in Table 3.36.

Table 29

ASSOCIATION BETWEEN AGE-ADJUSTED DEATH RATE AND SONIC BOOM EXPOSURE IN MEDIUM RISK AREA NEVADA: 1969-1983

	L	- CANDIO	r P p-value	Ξ L	NYPERTENSION r & p.va	ision p.value	L	באונב א	p-value	Ĺ	5 1	p-value		C at	p.value	L	ALL CAUSES	p-value
ALL AIRCRAFT (N=12); Maie:																		
Event	.0.044	0.005	0.885	0.587	0.345	0.026	-0.039	0.002	968.0	0.377	0.142	0.188	0.995	0.009	0.752	0.107	0.011	0.721
Pressure	-0.341	0.116	0.239	.0.118	0.014	0.695	0.275	920.0	0.350	0.019	<0.001	0.951	0.216	0.047	997.0	.0.273	0.075	0.353
Cl G	0.022	0.022 <0.001	0.941	0.082	0.007	0.785	-0.111	0.012	0.712	0.679	0.461	900.0	0.024	0.001	0.936	0.117	0.014	0.696
Female:																		
Event	0.301	0.091	0.302	0.110	0.012	0.714	0.116	0.013	00.100	0.176	0.031	0.555	.0.045	0.002	0.882	0.241	0.058	0.415
Pressure	0.025		756.0	0.245	0.060	207.0	0.454	907.0	0.105	670.0-	0.002	0.872	0.040	0.002	0.895	0.308	0.095	0.291
cton	0.522	0.272	2 0.055	0.135	0.018	0.652	.0.053	0.003	0.861	0.431	0.186	0.127	.0.125	0.016	9.674	0.271	0.073	0.356
Both:																		
Event	.0.018	0.018 <0.001	0.952	0.324	0.105	0.264	2.055	0.003	0.856	0.333	0.111	0.252	0.041	0.002	0.891	0.115	0.013	0.702
Pressure	-0.319	0.102	5.273	121.0	0.015	0.687	0.431	0.186	0.126	.0.014	<0.001	0.962	.0.171	0.029	0.567	.0.197	0.039	0.509
ctop	0.1%	0.040	0.503	0.127	0.016	0.671	-0.087	0.008	0.773	0.621	0.386	0.016	.0.027	0.001	0.927	0.187	0.035	0.529
SR71 (N=15):																		
Male:																		
Event	.0.158	0.025	5 0.550	0.415	0.172	800.0	0.215	970.0	0.414	0.400	0.160	0.113	.0.156	0.024	0.556	-0.087	0.008	0.744
Pressure	.0.277	0.077	7 0.287	100	<0.001	9.00	0.148	0.022	0.576	.0.085	200.0	0.749	.0.260	0.068	0.319	-0.306	0.094	0.237
Carpet Area	9 0.253	0.064	6 0.334	0.000	0.008	0.735	-0.117	0.014	0.660	0.044	0.002	0.869	0.317	0.100	0.219	0.336	0.113	0.191
€ 55	0.049	0.002	2 0.855	0.032	0.001	706.0	-0.265	0.070	0.310	0.694	0.482	0.001	0.089	0.008	0.738	0.152	0.023	0.567
Female:																		
Event	0.291	0.085	5 0.261	-0.056	0.000	0.835	0.249	0.062	0.342	0.268	0.072	0.305	.0.183	0.033	0.489	0.194	0.038	0.462
Pressure	-0.221	0.049	007.0	0.432	0.187	0.083	0.422	0.178	0.092	-0.082	0.007	0.759		¢0.001	96.0	0.138	0.019	0.604
Carpet Area	0.213	0.045	5 0.419	-0.316	0.100	0.221	-0.366	0.134	0.150	0.015	<0.001	0.954	0.026	0.001	0.921	-0.102	0.010	0.703
Clor Both:	0.498	0.248	3 0.041	0.132	0.017	0.621	-0.112	0.013	0.673	0.323	0.104	0.209	-0.116	0.013	0.663	0.176	0.031	0.505
Event	-0.135	0.018	3 0.563	0.155	0.024	0.559	0.248	0.062	0.344	0.377	0.142	0.138	-0.194	0.038	0.461	-0.09	0.010	0.710
Pressure	.0.268	0.072	2 0.303	0.300	0.0	0.247	0.346	0.120	0.177	.0.083	0.007	0.75	.0.195	0.038	097.0	.0.218	0.048	0.407
Carpet Area	0.238		7 0.363	0.175	0.031	0.507	-0.290	0.084	0.264	0.028	0.001	0.916	9.247	0.061	0.345	0.253	990.0	0.334
5	320		;															

Wo sample was available for the exposure to fighterplane. The age-adjusted death rates used for this analysis are presented in Table 3.3E.

Table 30 (page 1)
ASSOCIATION BETWEN AGE-ADJUSTED DEATH RATES
AND SONIC BOOM EXPOSURE IN LOW RISK AREA
NEVADA: 1969-1983

		CARDIO	CARD I OVASCUL AR	I	HYPERTENSION	NO1S		CANCER			CVA		-	OTHERS			ALL CAUSES)ES
	٠	٠.	r p-value	-	٩_	p-vatue	L	ر _	p-value	L	4 E	p-value	_	4	p-value	•	٦	p-vatue
ALL AIRCRAFT (W=22):	ä																	
Male: Event	0.103	0.011	0.637	0.604	0.365	0.001	-0.207	0.043	0.336	.0.104	110	0 631	5	5	769 6	85,	90	8
Pressure Cldn	0.035	0.001		0.007	0.000	0.654	0.119	0.014	0.584	.0.226	0.051	0.293	0.554	0.307	0.004	0.391	0.153	0.058
				2			7	6.133	60.0	70.436	0.18	0.054	.0.035	9.9	0.873	.0.437	6.19	0.032
Female: Event	-0.185	0.034	0.392	0.437	161.0	0.032	-0.342	0.117	0.103	.0.07	0.00	0.655	0.003	.0°.00†	0.989	.0.222	0.049	0.301
Pressure	0.220			0.342	0.117	0.102	.0.178	0.032	0.409	0.178	0.032	0.411			0.011	.0.164	0.027	0.447
€	-0.056	0.003	0.798	-0.310	0.0%	0.142	-0.437	0.191	0.032	.0.023	0.001	0.916			0.437	.0.264	0.070	0.215
Both: Event	-0.039			0.681	97.0	*0.00 1	-0.292	0.085	0.168	-0.147	0.022	867.0	0.083	0.007	20.0	-0.051	0.003	0.814
Pressure	0.146			0.252	990.0	0.237	.0.160	0.026	0.459	-0.101	0.010	0.643	.0.557	0.310	0.004	.0.326	0.106	0.121
5	.0.322	0.104	0.126	-0.189	0.036	0.380	.0.439	0.193	0.031	.0.402	0.162	0.051	.0.069	0.002	15.0	.0.364	0.132	0.081
FIGHTER (N=56):																		
Male:																		
Event	0.217			0.450	0.203	40.001	-0.185	0.034	0.165	9.1%	0.038	0.141	6.13	0.0%	0.204	0.214	970.0	0.108
Pressure	0.181			0.093	0.00	0.488	.0.153	0.023	0.252	0.251	0.063	0.058	0.075	900.0	0.578	0.147	0.022	0.272
10 to	0.207	0.013	0.394	0.184	0.034	0.167	.0.069	0.005	0.609	0.229	0.052	0.084	0.045	0.005	0.741	0.112	0.013	0.404

-	Formale:																			
_	Event	-0.132	0.017	0.326	9.70			.0.158			-0.017	6.001	0.898	900.0	0,001		771.0-		0.281	
_	Pressure	0.023	0.00	9.866	0.156	0.024	0.245	.0.177	0.031	0.185	0.420	0.176	40.001	.0.078 0.006	90.0	0.562	0.037	0.00	0.785	
_	Carpet	0.068	0.005	0.616	0.238		0.072	.0.168			0.47	120	700 0	6	Š			3		
	[.0.00	. 0.00		0.203	0.041		-0.143	0.020		0.286	0.286 0.082	0.029	-0.049	0.002	0.715	0.011	6.00	0.935	
. —	Both:																			
_	Event	0.057	0.003		0.374			-0.102			6		2,0				ļ	;	į	
_	Pressure	0.118			0.141			791.0			0 440			25.0	6.00	0.33	0.0	9.00	0.576	
_	Carpet	0.105			0.240	0.058	0.070	111		77.0	767.0		00.00	20.0	0.00	0.75	0.119	0.014	0.377	
	£ 5	0.119	0.014	0.376	0.246			.0.145	0.021		0.343	0.118	0.008	0.024	0.008	0.501	0.142	0.012	0.420	
	SR71 (N*27):																			
	Mele:																			
	Event	-0.101			0.328	0.108	0.083	.0.292	0.085		100.0			98		5	8	3	;	
_	Pressure	.0.077	0.006	969.0	-0.202	0.041	9.5%	0.030	0.00	28	456	0 027	6.03	900.0	60.00	2 2	5	0.000	0.643	
	Carpet	0.044			0.215	970.0	0.265	600	6					200		5	215.0.	2.10	0.025	
_	6 13	-0.433			104	5	200		3		, i			0.515		d. 00	0.393	0.154	0.034	
_			}	2	3	5	80.28	704.0.	8.78		-0.364	0.132	0.052	.0.052		0.792	-0.421	0.177	0.022	
_	femele:																			
_	Event	-0.086	0.007	0.662	.0.053	0.003	0.787	.0.291	0.085	424	2,0				•		į		;	
_	Pressure	0.260	9.068		0.135			100.0	5	000		3 6		20.0			180.0	0.007	0.683	
_	Carpet	.0.315	0.0		-0.118		775.0	700		9 60	0.0.0	3.6	0.720	¥ .0.	0.188	0.018	0.083	0.007	0.673	
_	£13	-0.00	دو.001	0.972	-0.301	151	0 035	702	200	20.400	900.0			0.407	97.1		0.030	9.00	0.878	
_								26.5	65	6.033	0.192	0.037	0.521	.0.178	0.032		-0.191	0.036	0.323	
_	Both:																			
_	Event	-0.097	0.00	0.619	0.293		0.124		0.102	500	2.0	2	9,		8			•		
	Pressure	0.086	0.008	9.97	.0.143					100	0.30	5.0	0.5.0		CON.0	U. 729	.0.057	0.003	0.772	
	Carpet	.0.143	0.020	0.463	0.160				\$ 6	6.60	00.00	10.0	0.505		9.50	0.00	-0.307	0.004	0.105	
_	C(of	-0.253		0.187	.0.026	0.001	0.896	.0.438	16.00	0.720	. o. i	7.0.0	0.509	2670	2,50	0.006	0.268	0.072	0.161	
_'										:		9.00	9.0		0.00	8	-0.314	0.0	0.098	

The age-adjusted death rates used for this analysis are presented in Table 3.3E.

Table 31
PERCENTAGES OF MORBIDITY ANONG HOSPITAL DISCHARGE DIAGNOSIS IN NEVADA
BY PERCENT OF DISCHARGE DIAGNOSIS

OMIN	Cardiovascular (Nean +/· \$.D.`	Hypertension (Nean +/· S.D.)	Cancer (Mean +/· S.D.)	CVA (Mean +/· S.D.)	Others (Mean +/- S.D.)
All Townships:	39.60 +/- 9.27	5.61 +/- 4.26	16.70 +/- 15.59	7.60 +/- 3.09	30.50 +/- 9.68
High Risk Area:					`
Cal iente	43.20 +/- 8.60	7.20 +/- 4.40	13.60 +/- 5.40	7.50 +/- 2.80	28.50 +/- 4.40
Les Vegas	45.10 +/- 3.30	5.70 •/· 1.20	17.80 +/- 4.40	8.90 -/- 0.90	22.50 +/- 4.70
Tonopeh	36.80 +/- 1.70	14.60 •/- 2.40	11.30 +/- 3.00	7.30 +/- 2.18	
Union •	55.30	0.80	9.80	10.60	23.60
New River	43.30 +/- 5.00	8.1 ./ R.	7.70 +/- 3.90	9.10 +/- 2.10	35.10 +/- 5.40
Argenta	43.00 +/- 3.80	8.40 +/- 2.50	0.40 -/- 4.30	3.80 +/- 3.50	35.30 +/- 6.10
Sperks •	2.48	3.10	11.10	00.7	26.90
Reno	34.80 +/- 15.60	2.90 +/- 1.40	36.60 +/· 28.20	7.20 +/- 3.30	18.50 +/- 8.20
All Tourships:	41.73 +/- 8.91	5.57 +/- 3.37	15.71 -/- 15.17	7.99 +/- 2.70	28.99 +/- 9.46
ANOVA (p-value):	0.0638	0.0000	0.0030	0.0256	0.000
Mediun/Low Risk Area:					
Ely	45.70 +/- 3.90	1.10 -/- 0.70	15.30 +/- 5.50	10.80 +/- 3.60	27.10 +/- 2.20
Elko	32.80 +/- 2.40	1.10 +/- 0.70	16.70 +/- 3.30	7.80 +/- 1.20	41.50 +/- 3.50
Welson	35.10 +/- 17.70	10.10 +/- 5.30	21.90 +/- 38.40	4.50 +/- 2.70	28.40 +/- 14.50
Mauthorne	32.20 +/· 5.30	11.40 +/- 4.40	11.80 +/- 7.40	4.60 +/- 3.60	40.00 +/- 8.50
Nenderson	36.70 +/- 3.50	3.80 +/- 1.70	21.20 +/- 2.90	9.00 +/- 2.60	29.30 +/- 5.80
Carson City	42.20 +/- 3.00	3.10 +/- 0.60	22.70 +/- 1.10	6.80 +/- 1.70	25.20 +/- 1.50
All Townships:	36.88 +/- 9.13	5.65 +/- 5.24	17.96 +/ - 16.25	7.09 +/- 3.50	32.43 +/- 9.77
ANOVA (p-value):	0.0925	0.000	0.8600	0.0043	0.0064
1 '					
t-test between two areas (p-value)	(p-value): 0.0233	0.9337	0.5397	0.2093	0.1282

* Data are based on single observation.

Data at various lengths from 1969-1985 were collected from 20 hospitals.

The townships are listed in descending order of risk within each group.

Table 32 (page 1)
Association between Hospital Diagnoses and
Sonic Boom Exposure

	•		i	-		į		רפוגינו		rereorovascul ar	/ascutar		o	Others	
		DI Seases	p-value	L	~_	p-value	L	"	p value	Acci	Accident	p-value	L	4	p-value
All AREA (N=62):															
All Aircraft:															
Event	0.148	0.022	0.244	0.071	0.002	0.580	.0.058	0.003	0.653	.0.023	0.00	0.850	020 0.	200	0.582
Pressure	0.240	0.058	0.056	0.073	0.002	0.566	0.033	0.001	0.79	0.057	0.000	0.656	0.350	122	700
1	0.263	0.069	0.035	0.013	٠٥.00	0.916	-0.149	0.022	0.241	0.174	0.030	0.170	-0.064	0.004	0.617
fighter:															
Event	0.144	0.021	0.258	0.075	900.0	0.559	.0.054	0.003	0.674	.0.029	0.001	0.823	K0 6.	Š	0.57
Pressure	0.213	0.065	0.092	0.069	0.00	0.589	0.105	110.0	0.411	0.141	0.020	0.269	701.0	0.011	67.0
Carpet	0.176	0.031	0.165	0.056	0.003	0.659	.0.103	0.011	0.419	0.120	0.014	0.347	0.058	0.003	0.65
ct g.	0.214	0.046	0.000	0.156	0.024	0.219	.0.061	0.004	0.633	270.0	0.002	0.713	-0.189	0.036	0.135
SR71:															
Event	0.235	0.055	0.061	.0.271	670.0	0.03	0.211	9.00	960.0	0.332	21.0	200	122	4	11
Pressure	.0.013	*0.00	0.917	.0.136	0.018	9.284	0.221	670.0	0.080	160.0	80	927	3,100	780	20.0
Carpet	0.014	*0.001	0.911	0.154	0.024	0.225	.0.263	0.069	0.036	0.077	90.0	0.549	0.360	0.130	00.0
£ G	0.058	0.003	0.653	-0.082	*0.001	0.523	.0.157	0.025	0.217	0.122	0.015	0.339	0.214	970.0	0.089
HIGH RISK AREA (N=33):															
All Aircraft:															
Event	0.104	0.011	0.555	0.179	0.032	0.307	.0.159	0.025	0.737	.0.153	0.023	0.382	.0.006	<0.001	0.971
Pressure	0.189	0.036	0.270	0.216	0.047	0.215	0.078	9.0.0	0.658	0.068	0.005	0.698	.0.3%	0.156	0.018
£	0.270	0.073	0.117	0.248	*0.00	0.152	0.136	0.018	0.437	990.0	0.00%	0.707	.0.077	0.00	0.662

sure 0.322 0.104 et 0.295 0.087 0.241 0.058 cure 0.139 0.019 et 0.204 0.042 0.008 <0.001 craft: 0.308 0.095 cure 0.093 0.009 cure 0.093 0.009 cure 0.093 0.000 cure 0.043 0.001 craft: 0.030 0.001 craft: 0.030 0.001 cure 0.043 0.002 ct 0.037 0.094 cure 0.097 0.094 cure 0.097 0.099	Pressure Carpet	6 122		5.2	0.17	0.031	0.312	.0.05	0.003	0.735 255	0.155	0.024	0.376	.0.012	<0.00°	170.0
95 0.086 0.135 0.113 0.046 0.224 0.070 0.126 0.035 0.001 0.844 0.106 1 0.058 0.145 0.024 0.073 0.017 0.013 0.025 0.003 0.696 0.016 29 0.019 0.428 0.155 0.024 0.175 0.017 0.017 0.029 0.017 0.016 0.016 29 0.019 0.428 0.155 0.024 0.175 0.016 0.017 0.029 0.017 0.029 0.017 0.029 0.017 0.048 0.017 0.024 0.016 0.029 0.017 0.029 0.017 0.029 0.017 0.029 0.017 0.029 0.017 0.029 0.017 0.029 0.017 0.017 0.018 0.018 0.017 0.029 0.017 0.017 0.029 0.011 0.029 0.011 0.029 0.011 0.029 0.011 0.029 0.011 0.029 0.012 0	Carpet	V. JEE	0.104	0.059	0.326	0.106	0.056	.0.2	0.089	0.187	.0.002	¢0.001	0 83	700 0	000	0.08
41 0.058 0.165 0.356 <0.0019		0.295	0.087	0.086	0.336	0.113	0.048	.0.264	0.000	0.126	.0.035	0.001	778.0	0.106	0.011	975.0
39 0.019 0.428 0.155 0.024 0.355 0.144 0.024 0.170 0.029 0.332 0.488 39 0.019 0.430 0.024 0.353 0.125 0.037 0.084 0.007 0.536 0.418 39 0.019 0.430 0.292 0.089 0.037 0.121 0.015 0.41 0.448 30 0.024 0.037 0.042 0.121 0.017 0.015 0.491 0.418 0.007 0.121 0.017 0.418 0.024 0.121 0.015 0.41 0.448 0.007 0.448 0.007 0.448 0.007 0.448 0.007 0.448 0.007 0.423 0.177 0.241 0.241 0.241 0.241 0.241 0.241 0.241 0.241 0.241 0.241 0.241 0.241 0.241 0.241 0.241 0.241 0.241 0.241 0.241 0.241 0.241 0.241 0.241 0.241 0.	el de	0.241	0.058	0.165	0.356	<0.001	0.035	-0.112	0.013	0.525	.0.069	0.005	0.696	.0.126	0.016	0.472
39 0.019 0.428 0.155 0.024 0.170 0.020 0.170 0.029 0.1332 0.468 39 0.019 0.430 -0.292 0.089 0.353 0.125 0.037 -0.084 0.007 0.636 0.0418 0.042 0.242 0.085 0.089 0.353 0.125 0.037 -0.084 0.007 0.421 0.017 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 0.041 <td>SR71:</td> <td></td>	SR71:															
39 0.019 0.430 -0.292 0.089 0.1353 0.125 0.037 -0.084 0.007 0.648 0.007 0.648 0.007 0.648 0.007 0.648 0.007 0.648 0.007 0.618 0.007 0.618 0.007 0.649 0.261 0.004 0.024 0.026 0.017 0.017 0.017 0.017 0.019 0.448 0.007 0.618 0.007 0.619 0.629 0.629 0.620 0.616 0.629 0.617 0.017 0.019 0.619 0.629 0.618 0.007 0.623 0.179 0.029 0.617 0.017 0.017 0.019 0.601 0.004 0.002 0.617 0.017 0.019 0.601 0.004 0.025 0.011 0.625 0.004 0.011 0.601 0.004 0.751 0.011 0.601 0.005 0.004 0.751 0.025 0.011 0.005 0.005 0.001 0.004 0.005 0.001 0.0	Event	0.139	0.019	0.428	0.155	0.024	0.376	.0.380	0.144	0.024	0.170	0.029	0.332	0.488	218	100
04 0.042 0.241 0.333 0.125 0.037 -0.429 0.164 0.000 0.121 0.015 0.017 0.046 0.001 0.964 -0.066 -0.001 0.708 -0.164 0.000 0.414 -0.012 0.001 0.946 0.201 0.005 0.095 0.095 -0.181 0.145 0.034 -0.083 0.007 0.660 0.423 0.179 0.017 -0.109 33 0.099 0.620 -0.032 0.004 0.064 0.007 0.660 0.423 0.179 0.017 -0.109 33 0.099 0.620 -0.032 0.044 0.002 0.817 0.035 0.017 0.017 0.017 34 0.099 0.620 0.017 0.025 0.401 0.225 0.016 0.225 0.016 35 0.003 0.784 0.025 0.001 0.889 0.114 0.013 0.164 36 0.003 0.784	Pressure	-0.139	0.019	0.430	.0.292	0.085	0.089	0.353	0.125	0.037	.0.084	0.007	755.0	817 0.		20.0
08 <0.007 0.764 <0.708 <0.143 <0.214 <0.012 <0.017 <0.017 <0.201 08 <0.007 <0.095 <0.095 <0.095 <0.095 <0.095 <0.073 <0.007 <0.660 <0.423 <0.179 <0.017 <0.109 33 <0.009 <0.620 <0.032 <0.001 <0.864 <0.044 <0.002 <0.817 <0.017 <0.017 <0.109 33 <0.009 <0.620 <0.032 <0.001 <0.864 <0.044 <0.002 <0.817 <0.036 <0.011 <0.869 <0.011 <0.869 <0.114 <0.015 <0.160 34 <0.001 <0.864 <0.025 <0.401 <0.825 <0.001 <0.869 <0.114 <0.025 <0.011 <0.025 <0.011 <0.025 <0.011 <0.025 <0.011 <0.025 <0.001 <0.869 <0.114 <0.025 <0.011 <0.025 <0.011 <0.025 <0.011 <0.025 <0.011	Carpet	0.204	0.042	0.241	0.353	0.125	0.037	.0.429	0.18	0.00	0.121	0.015	167.0	897.0	0.219	167.0
38 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.077 0.660 0.423 0.179 0.017 0.169 33 0.009 0.630 0.001 0.864 0.044 0.002 0.817 0.036 0.016 0.869 0.160 33 0.009 0.631 0.001 0.864 0.025 0.401 0.225 0.051 0.225 0.261 33 0.003 0.780 0.031 0.001 0.869 -0.025 0.401 0.225 0.051 0.225 0.061 0.865 0.064 0.065 0.114 0.018 0.183 0.064 0.065 0.751 0.225 0.054 0.064 0.065 0.071 0.064 0.065 0.071 0.054 0.065 0.071 0.064 0.065 0.071 0.054 0.065 0.071 0.054 0.072 0.072 0.072 0.072 0.072 0.072 0.072 0.072 <td< th=""><th>€ 5</th><th>0.008</th><th>*0.001</th><th>796.0</th><th>.0.066</th><th><0.001</th><th>0.708</th><th>.0.143</th><th>0.020</th><th>0.414</th><th>.0.012</th><th>000.</th><th>976.0</th><th>0.291</th><th>0.085</th><th>0.000</th></td<>	€ 5	0.008	*0.001	796.0	.0.066	<0.001	0.708	.0.143	0.020	0.414	.0.012	000.	976.0	0.291	0.085	0.000
36 0.095 0.092 -0.381 0.145 0.083 0.007 0.460 0.423 0.179 0.017 -0.109 33 0.099 0.620 -0.032 0.044 0.002 0.817 0.036 0.001 0.849 -0.160 33 0.099 0.620 -0.177 0.025 0.401 0.225 0.001 0.849 0.160 34 0.009 0.031 0.014 0.533 0.025 0.001 0.225 0.051 0.225 0.051 0.225 0.051 0.225 0.052 0.051 0.064 0.065 0.001 0.859 0.114 0.013 0.064 0.065 0.001 0.859 0.114 0.013 0.163 0.060 0.004 0.751 0.251 0.054 0.064 0.064 0.064 0.065 0.014 0.052 0.054 0.052 0.064 0.065 0.014 0.052 0.064 0.065 0.064 0.065 0.065 0.065 0.065	DIUMALON RISK ARE	.te=20).														
sure 0.506 0.095 0.092 -0.381 0.145 0.034 0.0083 0.007 0.660 0.423 0.179 0.017 0.109 sure 0.093 0.009 0.620 -0.032 0.001 0.864 0.004 0.002 0.817 0.036 0.001 0.849 0.016 -0.013 <-0.001 0.947 -0.117 0.014 0.533 -0.157 0.025 0.401 0.225 0.051 0.225 0.051	All Aircraft:															
Sure 0.093 0.009 0.620 0.0.032 0.001 0.864 0.064 0.002 0.817 0.036 0.001 0.849 0.160 -0.013 <0.001 0.947 0.117 0.014 0.533 0.157 0.025 0.401 0.225 0.051 0.225 0.261 r: 0.053 0.003 0.780 0.031 0.001 0.869 0.025 0.001 0.895 0.114 0.013 0.544 0.064 sure 0.043 0.002 0.818 0.089 0.008 0.638 0.060 0.004 0.751 0.241 0.058 0.193 0.195	Event	0.308	0.095	0.092	.0.381	0.145	0.034	.0.083	0.007	3	207 0	8	0 017	01.0	410	C 542
-0.013 <-0.001 0.947 -0.117 0.014 0.533 -0.157 0.025 0.401 0.225 0.051 0.225 0.261 -1.	Pressure	0.093	0.009	0.620	-0.032	0.001	0.864	0.044	0.002	0.817	0.036	0.001	678.0	0,160	0.026	0.392
t 0.053 0.003 0.780 0.031 0.001 0.869 0.025 0.001 0.895 0.114 0.013 0.544 0.064 sure 0.043 0.002 0.818 0.089 0.008 0.638 0.060 0.004 0.751 0.241 0.058 0.193 0.183 et 0.030 0.001 0.875 0.103 0.011 0.585 0.082 0.007 0.666 0.228 0.052 0.220 0.195 1 0.027 0.001 0.885 0.042 0.002 0.825 0.088 0.008 0.640 0.065 0.004 0.729 0.168 t 0.307 0.094 0.093 0.380 0.144 0.034 0.032 0.007 0.662 0.421 0.177 0.018 0.019 sure 0.097 0.009 0.608 0.028 0.001 0.881 0.037 0.001 0.846 0.176 0.031 0.345 0.079 et 0.135 0.018 0.471 0.015 <0.001 0.936 0.052 0.003 0.784 0.132 0.017 0.481 0.164	£ 5	-0.013	<0.001	0.947	-0.117	0.014	0.533	-0.157	0.025	0.401	0.225	0.051	0.225	0.261	0.068	0.157
t 0.053 0.003 0.780 0.031 0.001 0.869 0.025 0.001 0.895 0.114 0.013 0.544 0.064 sure 0.043 0.002 0.818 0.089 0.008 0.638 0.060 0.004 0.751 0.241 0.058 0.193 0.183 et 0.030 0.001 0.875 0.103 0.011 0.585 0.082 0.007 0.666 0.228 0.052 0.052 0.195 1 0.027 0.001 0.885 0.082 0.002 0.825 0.088 0.008 0.420 0.065 0.004 0.729 0.108 t 0.307 0.094 0.093 0.144 0.034 0.034 0.037 0.001 0.846 0.176 0.031 0.345 0.079 et 0.035 0.018 0.471 0.015 <0.001 0.881 0.037 0.003 0.784 0.132 0.017 0.481 0.144 et 0.037 0.018 0.471 0.015 <0.001 0.936 0.052 0.003 0.784 0.132 0.017 0.481 0.144	Fighter:															
sure 0.043 0.002 0.818 0.089 0.088 0.638 0.060 0.004 0.751 0.241 0.058 0.193 0.183 et 0.030 0.001 0.875 0.103 0.011 0.585 0.082 0.007 0.666 0.228 0.052 0.220 0.195 et 0.037 0.007 0.805 0.013 0.011 0.585 0.088 0.008 0.640 0.065 0.004 0.729 0.168 t 0.307 0.094 0.093 0.380 0.144 0.034 0.034 0.007 0.662 0.421 0.177 0.018 0.108 et 0.035 0.018 0.471 0.015 <0.001 0.881 0.037 0.001 0.846 0.176 0.031 0.345 0.079 et 0.0135 0.018 0.471 0.015 <0.001 0.936 0.052 0.003 0.784 0.132 0.017 0.481 0.164	Event	0.053	0.003	0.780	0.03	0.001	0.869	.0.05	0.001	0.895	0.114	0.013	775.0	790.0	0.004	0.734
et 0.030 0.001 0.875 0.0103 0.011 0.585 0.082 0.007 0.666 0.228 0.052 0.220 0.0195 -0.027 0.001 0.885 0.042 0.002 0.825 0.088 0.008 0.640 0.065 0.004 0.729 0.168 t 0.307 0.094 0.093 0.380 0.144 0.034 0.032 0.007 0.662 0.421 0.177 0.018 0.108 sure 0.097 0.009 0.608 0.028 0.001 0.881 0.037 0.001 0.846 0.176 0.031 0.345 0.079 et 0.135 0.018 0.471 0.015 <0.001 0.936 0.052 0.003 0.784 0.132 0.017 0.481 0.164	Pressure	0.043	0.002	0.818	.0.089	0.008	0.638	0.060	0.00	15.0	0.241	0.058	0.193	.0.183	0.033	0.328
1 0.0027 0.001 0.885 9.042 0.002 0.825 0.088 0.008 0.640 0.065 0.004 0.729 0.168 (1.002 0.307 0.009 0.009 0.109 0.109 0.001 0.881 0.037 0.001 0.846 0.176 0.031 0.345 0.079 et 0.135 0.018 0.471 0.015 <0.001 0.936 0.052 0.003 0.784 0.132 0.017 0.481 0.164 0.164	Carpet	0.030	0.001	0.875	·0.103	0.011	0.585	0.082	0.007	999.0	0.228	0.052	0.220	0.195	0.038	0.297
t 0.307 0.094 0.093 -0.380 0.144 0.034 -0.082 0.007 0.662 0.421 0.177 0.018 -0.108 sure 0.097 0.009 0.608 -0.028 0.001 0.881 0.037 0.001 0.846 -0.176 0.031 0.345 -0.079 et -0.135 0.018 0.471 0.015 <0.001 0.936 -0.052 0.003 0.784 0.132 0.017 0.481 0.164	clo l	-0.027	0.001	0.885	9.045	0.002	0.825	0.088	0.008	0.640	0.065	0.004	0.729	.0.168	0.028	0.369
0.307 0.094 0.093 0.380 0.144 0.034 0.062 0.007 0.662 0.421 0.177 0.018 0.108 Inter 0.097 0.009 0.608 0.028 0.001 0.881 0.037 0.001 0.846 0.176 0.031 0.345 0.079 t 0.135 0.018 0.471 0.015 <0.001 0.936 0.052 0.003 0.784 0.132 0.017 0.481 0.164	SR71:															
-e 0.097 0.009 0.608 0.028 0.001 0.881 0.037 0.001 0.846 0.176 0.031 0.345 0.079 0.135 0.018 0.471 0.015 <0.001 0.936 0.0052 0.003 0.784 0.132 0.017 0.481 0.164	Event	0.307	0.0%	0.093	.0.380	0.144	0.034	.0.082	0.007	0.662	0.421	0.177	0.018	.0.108	0.012	0.566
· 0.135 0.018 0.471 0.015 <0.001 0.936 · 0.052 0.003 0.784 0.132 0.017 0.481 0.164	Pressure	0.097	0.009	909.0	.0.028	0.001	0.881	0.037	0.001	9.846	0.176	0.031	378.0	200	0.00	0.675
	Carpet	-0.135	0.018	0.471	0.015	40.001	0.936	-0.052	0.003	0.784	0.132	0.017	0.481	20.16	0.027	0.381
.0.008 <0.001 0.765 0.008 0.638 0.155 0.024 0.409 0.153 0.023 0.416 0.264	£13	-0.008	<0.001	0.965	-0.089	0.008	0.638	.0.155	0.024	607.0	0.153	0.023	0.416	0.264	0.070	0.153

Cldh: Day-Night C-weighted sound average r: Correlation Coefficient r^a: Goodness-Of-Fit

APPENDIX I

APPENDIX 1
TABLE 1

INVENTORY OF TAPE ID AND DENOTED CONTENT

Denoted Content

Гa	pe Id		Record	
		File	Length	Records
D 8	1377/SPD	Ambulance Reports	250	28,872
DВ	1372/SPD	Abortion(1978-1985)	90	44,807
08	1350/SPD	Deaths(1964-1984)	150	107,945
DB	1073/SPD	Divorces(1968-1985)	100	186,144
ОВ	1351/SPD	Births(1964-1984)	250	reels 1 &2:
DB	1352/SPD	Births(1964-1984)	250	232.090
80	1373/SPD	CH00 Population	300	10.545
08	1378/SPD	WIC Clients (current)	400	12.663

TABLE 2

INVENTORY OF TAPE ID AND DENOTED CONTENT

FOR 1980 CENSUS OF NEVADA

APPENDIX I

LRECL DATA SET NAME BLKSIZE TAPE No. VOL=SER 29484 UCIOIA STF1A 1638 UCI02B STF2B 1956 31296 UCIEEO EE080 8838 26514 PUM5A, PUM5B, PUM5C 28950 UCIPUM 193 **UCI3AB** STF3A, STF3B 2016 24192 UCI4B1 STF4B 1956 31296 TAPE 1 UCI4B2 STF4B 1956 31296 TAPE 2

1956

1956

2046

2046

2046

2046

31296

31296

30690

30690

30690

30690

TAPE 3

TAPE 4

TAPE 1

TAPE 2

TAPE 3

Note: All tapes are non-labelled, written with ASC II, and all the densities are 1600 BPI.

UCI4B3

UCI4B4*

UCI5AH

UCI5A1

UCI5A2*

UCI5A3

STF4B

STF4B

STF5AHOV

STF5APOP

STF5APOP

STF5APOP

^{*} Bad tapes, need replacement.

TABLE 3

DATA KEY OF CENSUS FILES OF POPULATION DISTRIBUTION VOL=SER=DB1373

1964-1983: DSN=CDC.PM.CHOOPOP2, LABEL=(1,NL), LRECL=300 1964-1980: DSN=CDC.PM.CHOOPOPZ, LABEL=(2,NL), LRECL=300

COLUMN	FORMAT	VARIABLE	CODE
1-2	F2.0	Year	
3-4	F2.0	County	Ol=Carson City O2=Churchill O3=Clark* O4=Douglas O5=Elko O6=Esmeralda O7=Eurela O8=Humboldt O9=Lander 10=Lincoln 11=Lyon 12=Mineral 13=Nye 14=Pershing 15=Storey 16=Washoe* 17=White Pine 18=all rural counties+ O0=state total
5-6	F2.0	Sex/Race	Ol=total all O2=total white O3=total black O4=total indian O5=total other, unknown 11=male all 12=male white 13=male black 14=male indian 15=male other, unknown

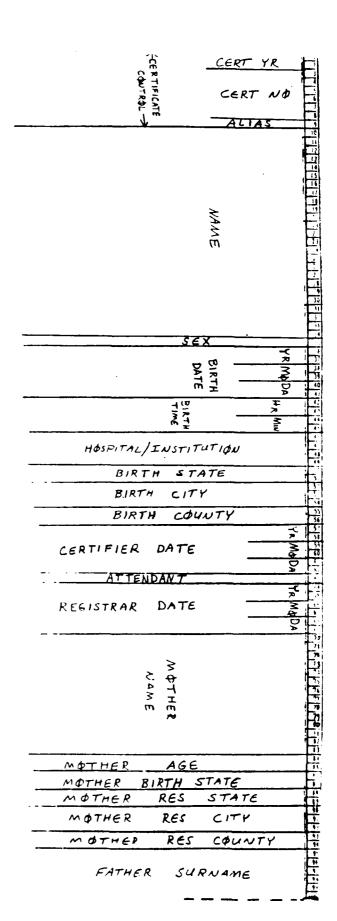
Note:

The first file is based on the 1980 census. The second file is based on the 1970 census. For 1964-1975, the estimates in the 2nd file are better; for 1976-1983, the estimates in the 1st file are better.

- * Urban Counties
- + County code 18 is total population of state minues the population of urban counties

APPENDIX 1 , TABLE 3, page 2

COLUMN	FORMAT	VARIABLE	CODE
			21=female all 22=female white 23=female black 24=female indian 25=female other, unknown
7-294	36F8.0	Age Group Popula	ation:
/ 274	F2.0	Age Group:	01=all ages 02=< l yr 03=1 yr 04=2 yrs 05=3 yrs 06=4 yrs 07=5 yrs 08=6 yrs 09=7 yrs 10=8 yrs 11=9 yrs 12=10 yrs 13=11 yrs 14=12 yrs 15=13 yrs 16=14 yrs 17=15 yrs 18=16 yrs 19=17 yrs 20=18 yrs 21=19 yrs 21=19 yrs 22=20 yrs 23=21-24 yrs 24=25-29 yrs 24=25-29 yrs 25=30-34 yrs 26=35-39 yrs 27=40-44 yrs 28=45-49 yrs 28=45-49 yrs 29=50-54 yrs 30=55-59 yrs 31=60-64 yrs 32=65-69 yrs 33=70-74 yrs 34=75-79 yrs 35=80-84 yrs 36=> 84 yrs
	F6.0	Number of Popula	ation in the group
295-300		used	- •



APPENDIX 1
TABLE 4
LAYOUT OF COMPUTER FILE ON BIRTHS
OBTAINED FROM STATE OF NEVADA

Sul Cope

APPENDIX 1 TABLE 4 page 2

THER IRNAME UTINUED)	4
»ε »ε	ļ.
60)	
0	!!
	ii
•	11
	1
SURNAME CODE	ď
FATHER AGE	ä
FATHER BIRTH STATE	17
MOTHER RACE	Ė
WEIGHT UNIT	ü
GRAMS (or) POUNDS	1
משאור בי	:
NUMBER DE BIRTHS	Ŀ
BIRTH ORDER	i
MOTHER ETHNIC	ť
FATHER ETHNIC	þ
MOTHER EDUCATION	ť
FATHER EDUCATION	ľ
PREVIOUS LIVE DELIVERIES	F
PREVIOUS DEAD DELIVERIES	Ì
	ť
PREVIOUS DEAD BEFORE 20 WKS	ļ
PREVIOUS DEAD AFTER 20 WKS	ļ
	t
LAST MENSE DATE	ŀ
-C -	ŀ
PRENATAL CARE MO MO OF YR OF PRECARE	ľ
MO OF YR OF PRECARE	ł
IF PRENATAL VISITS	ŀ
1 Min	I
	t
APGAR 5 MW	t
APGAK 5 MIN	
\$ MIN	ļ
APGAK 5 MIN LAST LIVE BIRTH	
LAST LIVE BIRTH	
\$ MIN	
LAST LIVE BIRTH	
LAST LIVE BIRTH LAST FETAL DEATH S T	
LAST LIVE BIRTH	
LAST LIVE BIRTH LAST FETAL DEATH CONTRACTOR OF THE STATE OF THE STAT	
LAST LIVE BIRTH LAST FETAL DEATH CONTRACTOR OF THE STATE OF THE STAT	
LAST LIVE BIRTH LAST FETAL DEATH CONTRACTOR OF THE STATE OF THE STAT	
LAST LIVE BIRTH LAST FETAL DEATH CONTRACTOR OF THE STATE OF THE STAT	
LAST LIVE BIRTH LAST FETAL DEATH C	
LAST LIVE BIRTH LAST FETAL DEATH C	
LAST LIVE BIRTH LAST FETAL DEATH C	
LAST LIVE BIRTH LAST FETAL DEATH C C C C C C C C C C C C C C C C C C	
LAST LIVE BIRTH LAST FETAL DEATH C C C C C C C C C C C C C C C C C C	
LAST LIVE BIRTH LAST FETAL DEATH C C C D	
LAST LIVE BIRTH LAST FETAL DEATH C C C D	
LAST LIVE BIRTH LAST FETAL DEATH C C C D	
LAST LIVE BIRTH LAST FETAL DEATH C C C	

APPENDIX 1
TABLE 4
page 3

Q		340
Ř	1	501
ΦΜΡΓΙΟΑΤΙΦΝS (CΦΗΤ)	i	30:
Õř		100
⊕ ≈		
7 3	*	100
<u> </u>	<u>23</u>	100
しょ	\$\$	1210
ā	ANDMOLIES	1
ž	200	-134
),	ĒŽ	2
•	Ľž	32.5
	عبد	133
SATISFACTOR	Y CERTIE	_8_
IN TIME	E	-144
- DEATH CR	DSS REF	1
- CAG	SS REF	1
	AMEND TYPE	1
ADOPTION		15)
1.227 . 7 . 7	AMEND NÉ.	1
		37
		E
		1.1
		122
	_	210
TEMP CERT	TNO	끧
-	· •	1
	•	214
		1
		12.6
4		121
FORM CONTI	edl aid	117
-4.011	/V W	100
		1
		217
		4.
		1
filler		700
4 3 H F		1
		100
		24

APPENDIX 1 TABLE 5 LAYOUT OF COMPUTER FILE ON DEATHS OBTAINED FROM STATE OF NEVADA

COST YR COST NUMBER ALLAS	
DE YR NO	F
DEATH STATE DEATH CETY	19-19-19
DEATH COUNTY INSTITUTEON	36133
DON INPATIENT RACE ETHNIC AGE MUIT	2 2 2 2 2 2
AGE IN LINITS VA YR PH MO PR DA	9 25 M 3 1 3 1 3 2
BIRTH STATE CITEZENSHIP MARITAL SYATUS	
SOL SEC	
BECLIPATION	Į.
KEND OF BUSINESS RES STATE	
RES CZTY	拼
RES COUNTY	F
FATHER	PHI-HI-12TE

APPENDIX 1 FABLE 5 Page 2

TATHER LURIANCE (Court)		101
FUNERAL FAC	LLITY	100
CENTEFEE		10%
~ <i>t</i> o	YR	110
Regist		-
REGISTAL	MD	
	DA	113
COM		- EE
RA	PT2	프
ALTOPSY	P7 3	
KEP TO COR	NER	13
DISURY PL	CC.	拉
SATISTACTAL	CY EERT	1
BLATH CROSS	REF	127
		125
57		世
Tem P Cert		$\frac{\Omega^{i}}{\Omega^{i}}$
סר ד	•	135 1135
		136
6 ~		13
FORM FILLER CONTROL NO		14
260		141
<u> </u>		100
75		145
7		141
Ã		49
		30
		7.7.
		50
		宣
		3
	•	60
		E,
	1	<u> </u>
		E
		H
	1	F
	*(
		_
		77
	1	_
	1	<u>:</u>
	}	-
	F	
	ţ	7
	Ł	1
	}	<u> </u>
	Ţ	<u> </u>
	ţ	-
	ł	-
	ļ	-
	<u> </u>	الإينان المرات المرات المرات
	it.	<u>:</u>
	- - - - -	<u>[] .</u>
	ļī.	0
		<u>.</u>
	F	;

```
NO
                    AND THEIR LOCATION
                      OF.
                      STATE
               APPENDIX
                 TABLE
                      OBTAINED FROM
VARIABLES
                               040VBBBB0000LLLLL
448040BBBWWWWWWW
111111111110VWW
0400BBBB00L 11
0VOWWWWWWWWWWWW
0 WW
0 WW
                                                       ろうりょうらてり
                                                                  -151
                                                   25
20
57-58
59-60
61-62
63
             36-37
50
 10***********
                     00000
NNNNNN
                                    2000
                 0
                              90
   ...
```

```
TIMES.173-207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TIPES.173-217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ~~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PIC X(S)
PIC X(S)
PIC X(S)
PIC X(S)
PIC X(S)
PIC X
PIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         169-170
54-153
56-153
57-158
59-160
63-162
                                                                                                                                                                                                                                                                                                                                                                              65-156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PIC XX.
PIC XX.
                                                                                                                                                                                                                                                                                                                                                                                  **
**
                                                                                                                                                                                                                                                                                                                                                                                  P I C
    100

38S-1-PARENATARILICARE

3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.5
                                                                                                                 000000
NWWWWW
```

```
VARIABLES AND THEIR LOCATION ON DEATH
                                                                                                                                                                                                                                                                                                                                       STATE OF
| Compared to the compared to 
                                                                                                                                                                                                                               APPENDIX
```

NEVADA

TABLE 8

DATA KEY OF BIRTH FILE (LRECL=250)

COLUMN	VARIABLE	CODE
1-34	N/A	
35	Sex	l=male 2=female 9=unknown
36-41	Birthday.	MMDDYY
42-45	Birth Time	HHMM 9999≈unknown
46-49	Hospital	Appendix A
50-51 52-54 55-56	Birth Place: state city/town county	Appendix A Appendix C Appendix C
57~62	Certificate Date	MMDDYY
63	Attendant	<pre>l=Physician,res.,int. 2 =midwife,CNM 3=Physician, or midwife 4=Status unknown</pre>
64-69	Registrar Date	MMDDYY
70-83 84-85 86-87 88-89 90-92	Mother: name age. birth state residence state residence city.	00-99 Appendix A Appendix A Appendix C
95-119 120	Father: surname surname code	Blank=legitimate
121-122 123-124	age birth state	l=illegitimate 00-99 Appendix A
125	Race: . mother father	Appendix E Appendix E

APPENDIX 1, TABLE 8, page 2

COLUMN	VARIABLE	CODE
127	Birth Wt. Unit.	Units wt. given in l=grams 2=pounds 9=not classifiable
128-131	????????	??????????
132	Number of Births	<pre>l=single 2=twin,or siamese 3=triplet 4=quadruplet 5=quintuplet 6=sextuplet,or plural 9=unknown</pre>
133	Birth Order	1-9 (e.g. l=first,2=second) 9=unknown
104 105	Ethnic: ·	
134-135 136-137	mother	Appendix H
120-121	father	Appendix H
	Education:	
138-139	mother	Appendix G
140-141	father	Appendix G
140.141	1461161	Appendix G
	Previous Delivery:	
142-143	live.	00-77 00=none 77=blank
144-145	dead ·	00-77 00=none 77=blank
	Previously Dead:	
146-147	before 20 weeks	00-99
210 217	Delete 20 weeks	99=no designation
148-149	after 20 weeks	00-99
		99=no designation
150-155	Date Last Menses	MMDDYY
	Prenatal Care Month:	
156	month started	0-9 month of pregnancy
157-158	name of month	e.g. Jan=01
		Feb=02 etc.

APPENDIX 1, TABLE 8, page 3

COLUMN	VARIABLE	CODE
159-160	No. Prenatal Visits	00-99
	Apgar Score:	00=blank 88=not on certificate 99=unknown
161-162	1 min.	00-10, 88, 99 99=entry >10 88=not on record
163-164	5 min.	00=blank 00-10, 88, 99 99=entry >10 88=not on record 00=blank
165-168	Date Last Birth	MMYY
169-172	Date Last Fetal Death	MMYY
173-207	Complications	N/A
208-217	Congenital Anomaly .	N/A
218	Satisfactory Certificate	blank≃satisfactory l≈unsatisfactory
219	Certificate on Time	0-4 No.of days 0=on time 1=1 day 2=2 day 3=3 day 4=4 days+
220	Death Cross Reference	blank=yes l=no
221	Birth Cross Reference	l or blank blank=yes l=no
222	Adoption: amendment type	A, L, P, T, B, N

APPENDIX 1, TABLE 8, page 4

COLUMN	VARIABLE	CODE	
223-227	amendment number	N/A	
228-236	Temporary Certificate No.	N/A	
COLUMN	VARIABLE	CODE	
237-242	Form Control No.	N/A	
243-250	Filler		

SMW:SML 06/27/85

APPENDIX 1, TABLE 9

DATA KEY OF NEVADA STATE DEATH FILE (LRECL=150)

COLUMN	VARIABLE	CODE
1-34	N/A	
35-40	Death Date	YYMMDD unknown=999999
	Place of Occurrence:	
41-42	State	Appendix D: 29=Nevada 99=Unknown
43-45	City/Town	Appendix F: Town Code: 001-195,701-716 =valid codes for in-state 717=unknown (for out of state) NCHS Code: rural area, or town code N/A
46-47	County	Appendix F: 01-17=valid codes for in-state 18=unknown (for out of state)
48-51	Institution	Appendix A: 0003=home 0004=other 0009=unspecified 2007=out-of-state
52	Hospital, Clinic and Medical Center	<pre>1=inpatient 2=out-patient 3=dead on arrival 4=status unknown 5=status not on certificate 0=other institution 7=all other reports 8=dead on arrival for institution unknown 9=unknown</pre>

APPENDIX 1, TABLE 9, page 2

COLUMN	VARIABLE	CODE
53	Race	Appendix B(Race) and Appendix H(Indian Tribe):
54-55	Ethnic Group	Appendix I(ethnic gr.) & Appendix H(Indian Tribe):

APPENDIX 1, TABLE 9, page 3

COLUMN	VARIABLE	CODE
56	Age Unit	0=<100 years 1=100+ years 2=months 3=weeks 4=days 5=hours 6=minutes 9=unknown
57-58	Number of Age Units	99=unknown
59-64	Birthday	YYMMDD 99=unknown year*
65	Sex	l=male 2=female 9=unknown
66-67	State of Birth	Appendix D
68	Citizenry	1=USA 2=Canadian 3=Mexican 4=remainder 9=unspecified
69	Marital Status	<pre>l=married 2=single, not married, never married, Indian marriage 3=widowed 4=divorced 8=not on certificate 9=unknown</pre>
70-78	Social Security #	
79-81	Occupation	Code= N/A
82-84	Kind of Business	Code= N/A
	Place of Residence: (if unknown, use state=29 and data of occurrence for this field)	
85-86	State	Appendix D: 29=nevada, unknown

^{*} Programmatically modified

APPENDIX 1, TABLE 9, page 4

COLUMN	VARIABLE	CODE
87-89	City/Town	Appendix F: 717=unknown (for state=29)
90-91	County	Appendix F: 18=unknown (for state=29,city=717)
92-105	Father's Surname	
106	Burial	<pre>1=burial 2=cremation 3=removal 4=anatomical dissect. 9=other, unknown</pre>
107-108	Funeral Facility	Appendix J: 00=out-of-state 98=others 99=unknown
109	Certifier	<pre>l=physician 2=coroner, medical examiner, sheriff, justice of peace 9=other, unknown</pre>
110-115	Date Registrar Received	MMDDYY
	Cause of Death (ICDA Code):	
116	E Code	<pre>blank=non-external E=external cause</pre>
117-120	Numeric Code	ICDA code without E Prefix (left justified)
121	Autopsy	<pre>l=yes (complete, partial) 2=no (refused, not available) 8=not on certificate 9=unknown</pre>
122	Referred to Coroner	l=yes 2=no 8=not on certificate 9=unknown

APPENDIX 1, TABLE 9, page 5

COLUMN	VARIABLE	CODE
123	Injuried at Work	l=yes 2=no 9=unknown
124-125	Place of Injury	01=desert 02=factory 03=farm 04=home 05=hotel 06=lake 07=mountain 08=office building 09=parking lot 10=school 11=street 00=others 99=unknown
126	Certificate satis.	.blank=satisfactory l=unsatisfactory
127	Certificate on time	blank=yes l=late for 1 day 2=late for 2 days 3=late for 3 days 4=late for 4+ days
128	Birth Certificate on file in Nevada	blank=no l=yes
129-137	Temporary certificate no.	N/A
138-143	Form Control no.	N/A
144~150	not used	

TABLE 10

CONTENTS OF REVISED POPULATION-DATA FILE

CONTENTS OF SAS DATA SET TO POP

LRECL=324 AT 18: 085ERV TRACK

CKS USED=38 SI	SUBEXTENTS= 1		OBSERVATIONS = 5400		REATED BY OS	CREATED BY 05 JOB HSGOA2PM	DN CPUID 03-3081-022050	3081-022050	
18:37 TUESDAY, JULY	JULY 2, 1985	sti es	8	SAS RELEASE	82.28	DSNAME * HSGO42, POP, SAS. DATA	POP.SAS.DATA	BLKS12E=23332	ت
RVATIONS PER TRACK=144		GENERATED	B _Y	DATA					
					ALPHABETIC	ALPHABETIC LIST OF VARIABLES	BLES		
•	VARIABLE	TYPE	LENGTH	LENGTH POSITION	FORMAT	INFORMAT	LABEL		
4	-	NON	60	28					
7		Z :	6 0 (12					
n c	C 4 4	2 2	00 9	36					
N (7)		2	o c o	202					
-		3	e 0	•					
9		NO.	0 0	4					
7		N N	6 0	52					
6 0 (3	e o (90					
5		2	x	9 6					
2 =			20 ex	9 6					
2	787	2	o ec	600					
(3		Z Z	9	<u>.</u> 8					
7		NON	a 0	108					
		3	a 0	116					
5		2	60	124					
71		2	ec o	132					
2 9			c c (140			•		
6 C	4 4 4 4		20 G	4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8					
2.5			9	100					
23		3	· œ	180					
24		Ž	6 0	188					
25		Ž.	€	196					
26	Y R 20	T	c c (204					
		2	0 9	2 6					
28	-	Ž	o c o	220					
29		Z.	6 0	228					
30		N.	66	236					
Ē.		Š	80	244					
32		¥ ;	5 00 1	252					
70	V D C B C C C C C C C C C C C C C C C C C		20 CE	200					
38		3	.	276					
36		NOW	6 0	284					
37	YR7074	NC.	60	292					
38	YR7579	N S	œ	300					
39	YR8084	Z S	50	308					

TABLE 11

UNIVARIATE DEPICTION OF DEATH DATA FOR DATA EDITING (sample showing deaths by county, then by race)

CUM PERCENT 99.997 100.000	CUM PERCENT				•		58.3	61.340		9	62.91		•			67.0			ζ.	G.	99.990	100.000	CUM PERCENT		0.16		ĸ		•		99.55	•		
PERCENT 0.010 0.003	PERCENT		2		96	٠		3.072	0.442		•	•	•	1.139	- 8	1.129		0.083	29.741	1.737	0.640	0	PERCENT		0.167			1.757	0.133	090.0	0.013	0.021	0.077	0.348
CUM FREQ 107270 107273	CUM FREQ		2400	6516	8623	61733	62423	65714	65866	66012	67400	67787	68357	69577	70649	71859	72815	72710	104572	106433	107119	107 130	CUM FREQ		179	99519	104549	106431	106574	106638	106652	106674	106757	107130
FREQUENCY 11 3	FREQUENCY	815	2400	4116	2107	53110	069	3291	152	146	1388	387	570	1220	1072	1210	756	66	31862	1861	686	=	FREQUENCY	8 15	179	99340	5030	1882	143	64	*	22	83	373
STATE 51 55	COUNTY	•	0	-	~	ED.	₹	ľ	y	7	•••	en	ō	=	12	13	7	15	16	1.1	88	66	RACE		0	· -	8	e	•	ιc	9	7	€0	ď

TABLE 12

BIVARIATE DEPICTION OF DEATH DATA FOR DATA EDITING

(sample showing deaths per county by state of birth)

=

18.19 SUNDAY, JULY 21, 1985

90.0

TOTAL

16 0.01

0.01

- c

104044

9.8

0.0

23 0.03

107 130

(CONTINUED)

TABLE OF O_STATE BY O_COUNTY

## PROCESSARY **REACTION*** **Condition** **Lind*** **Lind***	O_STATE	O_COUNTY	>								
24	FREQUENCY PERCENT ROW PCT COL PCT				13		5	9			66
24	25	0	0	0	0	0	0	0		2	
25		88	88	88	88	88	88	88		86	0
25		88	38	38	38	38	88	88		0.29	38
24 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	25	0	0	0	0	0	0	0	0	4	
24 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.		8.0	8.0	8.0	8.0	8.0	0.0	8.	00 0	8°.0	0
24 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.		88	88	88	88	88	88	88	88	25.00	88
29	-	3	3	3	3	3	8	3	3	0.38	5
29 570 0.00 0.00 0.00 0.00 0.00 0.00 0.00	27	0	0	0	0	0	0	0	0	~	
29	-	88	88	8 9	88	88	86	88	8	8	8
29		38	38	38	88	88	88	88	88	0.29	88
29 5.00	28	C	0	C	C		c	C	c		
29 570 1220 1072 1210 0.00 0.00 0.00 0.00 0.00 0.00 0.0	}	8	8	8.0	8	8	8	0	000	0	0
29 570 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.		8.0	8	8.0	8.0	8	8	8	8.0	42.86	9
29 570 1220 1072 1210 156 95 31862 1861 0 100.55 1.14 1.00 1.13 0.71 0.09 29.74 1.74 0.00 100.00 1.00.00 1.00 1.00 1.00 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00<		8	8	0.00	8 8	8.0	8	8	0.0	0.87	8
1.14 1.00 1.13 1.14 1.00 1.13 0.71 0.09 29.74 1.74 0.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	29	570	1220	1072	1210	756	56	31862	1861	0	=
100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 1		0.53	7	8.	1.13	0.71	60.0	29.74	1.74	8.0	0.0
30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0.55	1.17	1.03	16	0.73	0.00	30.62	1.79	8	0.0
30 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	- +	100.00	100.00	100.00	00.00	100.00	80.00	8.8	100.00	8	80.00
31 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30	0	0	0	0	0	0	0	0	0	
31 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-	8	8	8	8	0.0	8.0	0.0	0.0	8.8	9.0
31 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.		88	88	88	88	88	88	88	88	8 8 8 8	88
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	31	0	0	0	0	0	0	0	0	-	
32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		8.0	8.0	8.0	8.0	8.0	0.0		8.0	8 8	0
32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-	88	88	88	88	88	88		8.8	12.50	86
32 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.		3	3	3	3	3	3	3	3	2	3
107AL 570 1220 1072 1210 754 95 39 29.74 1.74 0.64	35	0 (0	0 (0 (0	0	0	0	5	
TOTAL 570 1220 1072 1210 756 95 31862 1861 686 0.53 1.14 1.00 1.13 0.71 0.09 29.74 1.74 0.64		88	88	88	88	88	8 8	88	88	0.0	88
TOTAL 570 1220 1072 1210 755 95 31862 1861 686 0.53 1.14 1.00 1.13 0.71 0.09 29.74 1.74 0.64 0	_	38	38	38	88	38	38	38	38	1.90	38
0.53 1.14 1.00 1.13 0.71 0.09 29.74 1.74 0.64 0	TOTAL	570	1220	1072	1210	755	95	31862	1861	989	
		0.53	1.14	2.8	1.13	0.71	60.0	29.74	1.74	0.64	0.0

APPENDIX 1, TABLE 13, CONTENTS OF EDITED DEATH DATA FILE

			++++++++++++++++++++++++++++++++++++++	MASTER 'S OF SAS DI ++++++++	++++++++++++++++++++++++++++++++++++++	* * * * * * * * * * * * * * * * * * *	20.21	20.21 SUNDAY, JULY 21, 1985	יאחר א פ	1. 198	ř.
			CONTENTS OF SAS DATA SET 10. DEAD	SAS DATA SI	ET TO.DEAD						
TRACKS USED=140 SUBEXTENTS=1		VAT 10NS = 107 13	O CREATED BY	OS JOB HS	604201 DN C	DBSERVATIONS # 107130 CREATED BY DS JOB HSGO4201 ON CPUID 03-3081-022050	2050				
AT 20:21 SUNDAY, JULY 21, 1985		BY SAS REI	BY SAS RELEASE 82.28 D	SNAME *HSG	342.0EATH.MA:	DSNAME #HSGO42. DEATH. MASTER, SAS, DATA	3CKS126	BLKS[2F=23428	I RFC = 6.1	ŭ	
OBSERVATIONS PER TRACK=768 G	GENERATED	RATED BY DATA									
			ALPHABETIC LIST OF VARIABLES	LIST OF VI	ARIABLES						
" VARIABLE	TYPE LE	LENGTH POSITION	N FORMAT	INFOR	INFORMAT LABEL						
AGE	NO.	2 33	6								
11 BIRTHOAY 14 BSIATE	3 Z	6 27	٨.								
BUSINESS	CHAR	3 46									
15 CITIZEN	¥ 3	2 39	on •								
ETHNIC	3 3	2 2	n is								
ICDA	CHAR	3 5									
17 JOB 15 MADDY	CHAR	64.	m -								
MONTH		. 6									
OCOUNTY	NCM	2 55									
O_STATE		2 0									
PLACE		2 + C									
	MUM	2 54									
R_STATE	NUM		_								
NAOL Y	NO.	3 51	_								
		2 23									
STATUS	N N	2 2 2									
	NON	8									

00092499

SOURCE STATEMENTSSET ONE;

DATA TO DEAD:

TABLE 1

ICD CODES IMPLEMENTED BY NATIONAL HEALTH STATISTICS CENTER Period: 1958 - Present

ICD - 8 ICD - 7 ICD - 9 1958-1967 1968-1978 1979-present Diagnosis 01 Cancer: 160 160 160 01 Nasal Auditory Sinuses 161 161 161 02 Larynx 162 162 Trachea, Bronchus, Lung 162.0,162.1 03 162.2,163 163.0 163 04 Pleura 05 Malignant Melanoma (Skin) 190 172 172 174 06 Breast(female, male) 170 174-175 153 153 153 07 Colon 151 151 151 08 Stomach 150 150 09 Esophagus 150 191 191 10 Brain Tumor 140-149,152, 140-149,152, 11 Other Cancer 154-159, 154-159,164-163.1-171, 171,173, 173,175-190, 176-190, 192-208 192-209 Total All Cancers 140-204 140-209 140-208 02 Respiratory: 12 Acute Respiratory Infections 470-475 460-466 460-466 501-502 Bronchitis, chronic and 490-491 490-491 13 unspecified Emphysema 518 492 492 14 15 Asthma 241 493 493 16 Other Chronic Airway 518+ 494,496 Obstruction Chronic airway obstruction 490-493 490-494,496 17 Pneumoconiosis 523-524 515+ 500-505 516.0+,516.2+ 18 Diseases due to external 506-508 agents

APPENDIX 2, TABLE 1, page 2

ICD	CODES	IMPLEMENTED	BY	NATI	ONAL	HEALT	H STATISTI	CS CENTER	
Diagr	nosis					•	ICD - 8 1968-1978		nt -
Major	c Cardi	ovascular Dis	ease	s:			390-448	390-448	
03 Di	sease	of Heart:					390-398, 402,404, 410-429	390-398, 402, 404-429	
	Hyper	tensive Heart tensive Heart nal disease					402 404	402 404	
	All I	schemic Heart	Dis	ease:			410-413	410-414	
21	Acute	Myocardial i	nfar	ction			410	410	
22	Old in	nfarction and hronic ischem	oth	er fo	tms	50	412		
23		ischemic hea				36	411,413	411,413	
24	Rheum	atic fever an	d ot	her			390-398,	390-398,	
		r diseases					414-429	405-409,	
								415-429	
04 Hy	perten:	sion with or	with	out r	enal	diseas	<u>e:</u>		
25		tension with ease	or w	ithou	t ren	al	400,401, 403	401,403	
05 Ce	rebral	Vascular Acc	iden	t:			430-438	430-438	
26	Subar	achnoid Hemor	rhad	re			430+	430	
	CVA			, –			431-436+	431-436	
28	111-d	efined and la	te e	ffect			437-438+	437-438	
06 At	herosc	lerosis:							
29	Athe	rosclerosis					440	440	
07 Ot	her di	sease of arte	ties	, art	eriol	es, ar	d capillar	ies:	
30		r diseases of rioles, and c					441-448	441-448	

APPENDIX 2, TABLE 1, page 3

ICD CODES IMPLEMENTED BY NATIONAL HEALTH STATISTICS CENTER

Diagn	osis	ICD - 7 1958-1967	ICD - 8 1968-1978	
08 Ot	her Cardiovascular Disease:			
31	Other Cardiovascular Diseas	e	399,405- 409,439	
09 St	ress/Emotional:			
32	Specific Disorders of Sleep of Nonorganic Origin	780.7	306.4	307.4
33	Acute Reaction to Stress an Adjustment Disorders	d 320.7, 790.2	790.2,307	308,309
10 Re	production:			
34 35	Spontaneous Abortion Short Gestation Low Birthweight	650.0 77 4- 776	6 43 5 777	634 765
11 Co	ngenital Anomalies:			
36	Congenital anomalies	750-759	740-759	740-759
12 Ot1	ner Diagnosis:			
37	All Other Diseases	residual	residual	residual

^{*} ICD-7 codes need to be revised. + Tentatively grouped.

APPENDIX 2 TABLE 2

GEOGRAPHIC CODES OF PEVADA FOR COUNTY, TOWNSHIP, AND, TOWN

Juris	dict	ion	(odes in Vi	tal Records NCHS Code
(01)	Car	son City County:		
	01	Carson City Township Carson City New Empire Stewart Rural Area and Unknown Town	001 120 162 001	001 001 001
(02)	Chu	rchill County:		
	02	New River Township Dixie Valley Fallon Hazen Stillwater Rural Area and Unknown Town	047 059 076 163 701	701 701 701 701 701
(03)	Cla	rk County:		
	03	Bunkerville Township		
		Bunkerville	024	702
	04	Goodsprings Township		
		Goodsprings Jean Sandy Sloan	073 086 146 156	702 702 702 702
	05	Henderson Township		
		Henderson	002	002
	06	Las Vegas Township		
		Blue Diamond Charleston Park East Las Vegas Indian Springs Las Vegas Mountain Springs North Las Vegas West Las Vegas	020 032 052 081 003 118 004	702 702 702 702 003 702 004 702

APPENDIX 2, TABLE 2, page 2

Juris	sdict		Codes in Vita Town Code	NCHS Code
	07	Logan Township		
		Logandale	100	702
	08	Mesquite Township		
		Mesquite	109	702
	09	Moapa Township		
		Moapa	115	702
	10	Nelson Township		
		Boulder Beach	022	702
		Boulder City Nelson	023 119	70 2 702
			119	702
	11	North Las Vegas Township	,	
		North Las Vegas	004	702
	12	Overton Township		
		Overton	130	702
	13	Searchlight Township		
		Laughlin	094	702
		Searchlight South Point	148	702 703
		South Point	159	702
	14	Rural Area and Unknown Town	702	702
(04)	Dou	glas County:		
	15	East Fork Township		
		Centerville	030	703
		Dresserville	048	703
		Gardnerville Genoa	063 064	703 703
		Minden	113	703
		Stateline	160	703
	16	Tahoe Township		
		Glenbrook	067	703
		Lakeridge	090	703
		Lincoln Park	097 099	703 703
		Logan Creek Estates	UYY 	///

APPENDIX 2, TABLE 2, page 3

Juris	dict	ion.		tal Records NCHS Code
		Skyland	155	703
		Tahoe Village	167	703
		Zephyr Cove	193	703
	17	Rural Area and Unknown Town	703	703
√(05)		co County:		
• (/		Carlin Township		
		_		
		Carlin	026	704
		Midas	110	704
	19	East Line Township		
		Eastline	053	704
		Boone Springs	021	704
		boone opringe		, 44
	20	Elko Township	•	
		Elko	055	704
		Halleck	074	704
		Jiggs	087	704
		Lamoille	091	704
		Lee	095	704
		Dinner Station	046	704
	21	Jackpot Township		
		Contact	035	704
			084	704
		Jackpot	004	704
	22	Jarbridge Township		
		Jarbidge	085	704
	23	Mountain City Township		
		Deep Creek	043	704
		Jack Creek	083	704
		Mountain City	117	704
		North Fork	124	704
		Owyhee	131	704
		Patsville	136	704
		Wild Horse	189	70 4
		White Rock	188	704
	24	Tecoma Township		
		Montello	116	704
		Oasis	127	704

APPENDIX 2, TABLE 2, page 4

			Codes in Vit	tal Records
Juri	sdict	tion	Town code	NCHS Code
	25	Wells Township		
		Currie	040	704
		Deeth	044	704
		Ruby Valley	144	704
		Shantytown	150	704
		Welcome	185	704
		Wilkins	190	704
	26	Rural Area and Unknown Town	704	704
/(06)	Est	meralda County:		
	27	Esmeralda Township		
		Coaldale	034	705
		Dyer	050	705
		Esmeralda	705	705
		Goldfield	072	705
		Gold Point	071	705
		Lida	096	705
		Silverpeak	154	705
		Rural Area and Unknown Town	705	705
(07)	Eur	reka County:		
	28	Beowawe Township		
		Beowawe	018	706
		Palisade	133	706
		Primeaux	139	706
		Rixies	141	706
	29	Eureka Township		
		Eureka	058	706
	30	Rural Area and Unknown Town	706	706
(80)	Hum	boldt County:		
	31	Gold Run Township		
		Getchell Mine	066	707
		Golonda	068	707
		Red House	140	707
		Valmy	175	707
		-		

APPENDIX 2, TABLE 2, page 5

Juris	dict		Codes in Vit	NCHS Code
	32	McDermitt Township		
		Cordero	036	707
		McDermitt	107	707
		Orovada	129	707
	33	Paradise Valley Township		
		Paradise Valley	135	707
	34	Union Township		
		Daveytown	041	707
		Denio	045	70 7
		Jungo	088	707
		Sulphur	164	707
		Winnemucca	191	707
	35	Rural Area and Unknown Town	70 7	707
(09)	Lan	der County:		
	36	Argenta Township		
		Battle Mountain	017	708
		Cortez	037	708
		Gold Acres	069	708
		North Battle Mountain	123	708
		Tenabo	169	708
	37	Austin Township		
		Austin	011	708
	38	Rural Area and Unknwon Town	708	708
(10)	Lin	coln County:		
	39	Alamo Township		
		Alamo	008	709
		Ash Springs	010	709
		Hiko	078	709
		Tempiute	168	709
	40	Caliente Township		
		Barclay	014	709
		Caliente	025	709
		Carp	027	709
		Elgin	054	709

APPENDIX 2, TABLE 2, page 6

			Codes in Vi	
Juri	sdict		Town Code	NCHS Code
	41	Panaca Township		
		Panaga	134	709
		Panaca Rose Valley	142	709
		-		
	42	Pioche Township		
		Caselton	029	709
		Pioche	138	709
		Ursine	174	709
	43	Rural Area and Unknwon Town	709	709
(11)	Lyc	on County:		
	44	Canal Township		
		Fernley	060	710
	45	Dayton Township		
		Dayton	042	710
		Silver City	152	710
		Silver Springs	153	710
		Weeks (Toll Ranch)	184	710
	46	Mason Valley Township		
		Wabuska	179	710
		Weed Heights	183	710
		Yerington	192	710
	47	Smith Valley Township		
		Smith	157	710
		Wellington	186	710
	48	Rural Area and Unknown Town	710	710
(12)	Min	eral County:		
	49	Hawthorne Township		
		Babbitt	012	711
		Hawthorne	075	711
			· · · · · · · · · · · · · · · · · · ·	,

APPENDIX 2, TABLE 2, page 7

Juris	sdict	ion	Codes in Vit	
	50	Mina Township		
		Basalt Luning Mina Sodaville	016 103 112 158	711 711 711 711
	51	Schurz Township		
		Schurz	147	711
	52	Rural Area and Unknown Town	711	711
(13)	Nye	County:		
	53	Beatty Township		
		Beatty Lathrop Wells	195 093	712 712
	54	Gabbs Township		
		Gabbs Ion e	0 62 08 2	712 712
	55	Pahrump Township		
		Pahrump	132	712
	56	Round Mountain Township		
		Carvers Manhattan Round Mountain	028 104 143	712 712 712
	57	Tonopah Township		
		Adaven Current Duckwater Lockes Tonopah Warm Springs	007 039 049 098 171 181	712 712 712 712 712 712
	58	Rural Area and Unknown Town	712	712

APPENDIX 2, TABLE 2,page 8

Juri	sdic		Codes in Vit. Town Code	NCHS Code
(14)	Pe	rshing County:		
	59	Lake Township		
		Barrell Springs	015	713
		Imlay Lovelock	079	713
		Mill City	101 111	713
		Oreana	128	713 713
		Seven Troughs	149	713
		Unionville	173	713
		Rural Area and Unknown Town	713	713
(15)	Sto	orey County:		
	60	Virginia Township		
		Virginia City	177	714
		Gold Hill	070	714
		Rural Area and Unknwon Town	714	714
(16)	Was	hoe County:		
	61	Gerlach Township		
		Empire	057	715
		Gerlach	065	715
		Vya	178	715
	62	Reno Township		
		Anderson	009	715
		Black Springs	019	715
		Crystal Bay	038	715
		Flanigan	061	715
		Hidden Valley	077	715
		Incline Village	080	715
		Mayberry-Highland Park	106	715
		New Washoe City North Valley	121	715
		Northridge Subdivision	125	715
		Reno	126 005	715
		Steamboat	161	715 715
		Washoe City	182	715
	63	Sparks Township		
		Sparks	006	006
		Sun Valley	006 165	006 715
		Sutcliffe	166	715 715
		· · · · · · · · · · · · · · · · · · ·		/ 13

APPENDIX 2, TABLE 2, page 9

Juris	sdict	ion	Codes in Vit	al Records NCHS Code
~-~-	64	Verdi Township		
		Verdi	176	715
	65	Wadsworth Township		
		Nixon Wadsworth	122 180	715 715
	66	Rural Area and Unknown Town	715	715
(17)	Whi	te Pine County:		
	67	Baker Township		
		Baker	013	716
	68	Ely Township		
	69	Cherry Creek East Ely Ely Lages Lane City McGill Minerva Ruth Shoshone Tippett Lund Township	033 051 056 089 092 108 114 145 151	716 716 716 716 716 716 716 716 716 716
		Lund Preston	102 138	716 716
	70	Rural Area and Unknown Town	716	716
(18)	Unk	nown County		
	99	Township		
		Any Town	717	999

TABLE 3

INTERMEDIATE DENOMINATOR DATA FILE

WITH 13 AGE CATEGORIES

14:23 WEDNESDAY, JULY 3, 1985 *******************************

CONTENTS OF SAS DATA SET TO . NEWAGE

BY SAS RELEASE 82.28 DSNAME+HSGO42,POP.SAS.DATA BLKSIZE=23384 LRECL=140 CREATED BY 05 JOB H5G042PN ON CPUID 03-3081-022050 TRACKS USED*17 SUBEXTENTS=2 DBSERVATIONS+5400 AT 14:23 WEDNESDAY, JULY 3, 1985

ALPHABETIC LIST OF VARIABLES

DBSERVATIONS PER TRACK-334 GENERATED BY DATA

VARIABLE TYPE LENGTH POSITION FORMAT LABEL

17 AGE_17 | NUM | 8 132

5 AGE 7R1 | NUM | 8 52

6 AGE 7R1 | NUM | 8 76

7 AGE 3 4 NUM | 8 52

11 AGE 2 5 4 NUM | 8 52

12 AGE 3 4 NUM | 8 52

13 AGE 45 5 4 NUM | 8 100

14 AGE 5 5 4 NUM | 8 100

15 AGE 5 74 NUM | 8 106

16 AGE 5 74 NUM | 8 124

2 CDUNTY | NUM | 8 124

3 SEX NUM | 8 20

1 YEAR NUM | 8 44

DATA TO.NEWAGE: SET TO.POP: OCO90099	66006000
AGE_LT1*LT1;	00100099
AGE_VR1:	00101099
AGE2 5*YR2+YR3+YR4+YR5;	00102099
AGE6_12=VR6+YR7+YR8+YR9+YR10+YR11+VR12;	00103099
AGE 13 18=7813+87814+7815+7816+7817+7818;	00104099
AGE 19 24=YR19+YR20+YR2124;	00105099
AGE25 34=YR2529+YR3034;	00 106099
AGE 35 44 = YR3539+YR4044;	00107099
AGE45 54 * YR4549+YR5054;	00108099
AGESS 64=YRSSSC+YRSO64;	001000
AGE65 74=YR6569+YR7074:	00109199
AGE75_UP*YR7579+YR8084+YR85;	00109299
AGE ALL=ALL;	00109399
KEEP YEAR COUNTY SEX RACE AGE LT1 AGE YR1 AGE2 5 AGE6 12	00109499
AGE13 18 AGE19 24 AGE25 34 AGE35 44 AGE45 54	00109599
AGESS 64 AGESS 74 AGE75 UP AGE ALL:	00109699
	90011009

TABLE 4

FINAL DENOMINATOR DATA SET

TRACKS USED=14 SUBEXTENTS=1 OBSERVATIONS=5400 CREATED BY DS JOB HSG042PY DN CPUID 03-3081-022050 CONTENTS OF SAS DATA SET FROM. AGEGR WITH 8 AGE CATEGORIES

ALPHABETIC LIST OF VARIABLES

AT 23:45 SATURDAY, SEPTEMBER 21, 1985 BY SAS RELEASE 82.28 DSNAME=HSGO42.POP.SAS.DATA BLKSIZE=32380 LRECL=76

CBSERVATIONS PER TRACK-426 GENERATED BY DATA

VARIABLE, TYPE LENGTH POSITION FORMAT INFORMAT LABEL

- CATA FOOM ACTIVE TOTAL SOUNDS	66006000
	96000100
LENGTH YEAR 2	
CALCIO	166010100
N	00101199
25.7	00101299
· POST POST POST POST POST POST POST POST	00102099
	00103036
VRD [4=VXD+VXD+VXT+VXT+VXT+VX	00104099
YR15 24=YR15+YR16+YR17+YR18+1R20+1R2-1-1-1-1	00090100
YR25 44=YR2529+YR3034+YR3539+YR4044;	500000
* DA F. FA = Y DA FA 4 C+ Y DE COM	66080100
	00103033
YAND GARTANDOUT TANDOUT TO COMPANY TO COMPAN	66160100
GE 65% Y65664+X 70/4+YK /5/4+X X004+X-X05+	00109399
YA ALLEALL:	00109499
KHEN YEAR COURS! WEN YELL HELD AND IN THE STREET	00100699
(R45) 54 1835 64 GE 53 18 FEE .	66001100

TABLE 1

HEADING OF VARIABLE POSITIONS IN EXPOSURE DATA (SAMPLE)

1769 TACTICAL AIRCRAFT ONLY

09-JAN-86

Altitude .1->30k ft , Mach Number >1.0

	TOWNSHIP DATA				PERSONIC EVENT DATA	O1 ***	D
Code	Name	(sa m1):	Number of Events (/yr)	Average Pressure (psf)	Average Carpet Area (sq mi)	CLDN (dB)	Percent of Total Events
	ARSON CITY	146	0.00	0.00	0.0	0.0	0.000
	FW RIVER	5036	0.00	0.00	0.0	0.0	0.000
		109	0.30	1.60	72.0	24.1	0.005
	ONKERVILLE	1095	0.60	1.60	72.0	17.0	0.010
	OODSPRINGS		0.67	1.60	72.0	24.5	0.011
	IENDERSON	219 1642	99.00	1.60	72.0	37.5	1.666
	AS VEGAS		0.20	1.60	72.0	24.0	0.003
	"NGAN	73		1.60	72.0	24.0	0.010
	ESQUITE	219	0.60	1.60	72.0	46.1	11.375
	10APA	1533	676.00	1.60	72.0	24.0	0.034
	HELSON	730	2.00	1.60	72.0	26.0	0.037
	LAS VEGAS	511	2.18		72.0	24.0	0.052
	IVERTON	1131	3.10	1.60	72.0	23.9	0.036
	SEARCHLIGHT	803	2.14	1.60		0.0	0.000
	EAST FORK	730	0.00	0.00	0.0		0.000
1.5	AHOE	36	0.00	0.00	0.0	0.0	
13 0	CARLIN	1606	1.86	1.60	72.0	20.3	0.031
14 E	AST LINE	1533	0.00	0.00	0.0	0.0	0.000
.20 €	LNO	3467	6.32	1.60	72.0	22.3	0.106
21 .	MONFOT	1168	1.53	1.60	72.0	20.8	0.026
2.2	ARBR LUÓF	365	1.70	1.60	72.0	26.3	0.029
	HOUNTAIN LITY	3066	7.68	1.60	72.0	23.6	0.129
	recoma.	2043	0.00	0.00	0.0	0.0	0.000
	ILLS	4161	3.91	1.60	72.0	17.4	0.066
	SHERALDA	3503	0.00	0.00	0.0	0.0	0.000
	E OWAWE	1387	0.00	0.00	0.0	0.0	0.000
	UKEKA	2773	0.00	0.00	0.0	0.0	0.000
	OLD RUN	1424	0.17	1.60	72.0	10.4	0.003
	1CDERMITT	1533	0.42	1.60	72.0	14.0	0.007
	CAHADISE VALY	1387	0.38	1.60	72.0	14.0	0.006
	NOING	5621	4.89	1.60	72.0	19.1	0.082
	AKGENTA	2519	0.00	0.00	0.0	0.0	0.000
	AUSTIN	3138	0.00	0.00	0.0	0.0	0.000
	AL AMO	3941	1454.00	1.60	72.0	45.3	24.129
	CALTENTE	3066	2902.00	1.66	72.2	49.7	48.931
	FANALA	621	161.00	1.66	72.2	44.1	
		2737	106.00	1.66	72.2	35.9	1.734
	PIOLHE CANAL	182	0.00	0.00	0.0	0.0	0.000
	CANAL	438		0.00	0.0	0.0	0.000
	TIAY TON		0.00		0.0	0.0	0.000
	MASON VALLEY	876	0.00	0.00		0.0	0.000
	SMITH VALLEY	474	0.00	0.00	0.0	0.0	0.000
	HATHORNE	1971	0.00	0.00	0.0	0.0	0.000
	MINA	1387	0.00	0.00	0.0		
	SI HURZ	401	0.00	0.00	0.0	0.0	0.000
	HEATTY	4526	227.00	2.20	76.9	39.7	3.320
	ARRS	1569	0.00	0.00	0.0	0.0	0.000
	HAHRUME	292	1.16	1.69	73.4	26.2	0.020
	RUUND MNTAIN	730	0.00	0.00	_0.0	0.0	0.000
57	[UNOPAH	10183	286.00	2.57	77.5	38.6	4.812
ي ټو	AKE	59 84	0.64	1.60	72.0	9.9	0.011
60 1	VIRGINIA	219	0.00	0.00	0.0	0.0	0.000
61 (RERLACH	4343	9.18	1.45	65.4	21.7	0.174
52 8	RENO	766	0.10	1.60	72.0	10.8	0.002
63 9	SPARKS	621	0.12	1.60	72.0	12.5	0.002
	VERDI	73	0.00	0.00	0.0	0.0	0.000
	WADSWORTH	730	0.10	1.60	72.0	11.0	0.002
	BAKER	1168	0.00	0.00	0.0	0.0	0.000
68 (7190	0.00	0.00	0.0	0.0	0.000
•					0.0		0.000
59 1	LUNB	694	0.00	0.00	0.0	0.0	9.000

APPENDIX 4 TABLE 1

DATA KEY OF UCI-MASTER . DATA

COLUMN	FORMAT	VARIABLE
1	F 1.0	Aircraft
2~3	¥ 2.0	Year
4-5	F 2.0	Towncode
6-12	F 7.0	Town Area
13-21	F 9.2	No. of Events
22-27	F 6.2	Avg. Pressure
28-34	F 7.1	Avg. Carpet Area
	F 6.1	c ldn
35-40	F 7.3	% of events
41-47	F 7.3	Death Rate
48-54		Pop. Porportion
55-61	F 7.4	

APPENDIX 4, TABLE 1, page 2

DATA KEY FOR WEIGHTED UCI DATA AND DEATH RATES

Column	Format	Variable	Code
1	F1.0	Sex	l=male 2=female 3=both
2	F1.0	Aircraft	l=fighter 2=SR71 3=supersonic
3-4	F2.0	County	
5	F1.0	Period	1=1969 2=1970-1974 3=1975-1979 4=1980-1983
6-14	F9.2	No. of Event	:
15-20	F6.2	Average Pres	sure
21-27	F7.1	Avg. carpet	area
28-33	F6.1	Cldn	
34-40	F7.4	Cardiovascul	ar*
41-47	F7.4	Hypertension	ı *
48-54	F7.4	Cancer*	
55-61	F7.4	CVA*	
62-68	F7.4	Others*	
69-75	F7.4	Age Adjusted	l Death Rate

^{* (}all variables are age-adjusted, cause-specific death rates, per thousand, per year).

APPENDIX 4, TABLE 1, page 3

DATA KEY OF COMBINED UCI DATA AND FRACTION OF HOSPITAL DIAGNOSIS

File Name: UCI-2HOSP.DATA

COLUMN	FORMAT	VARIABLE
1	F1.0	Aircraft
2-3	F2.0	Year
4-5	F2.0	Township
6-14	F9.2	No. of Events
15-20	F6.2	Average Pressure
21-27	F7.1	Average Carpet Area
28-33	F6.1	Cldn
34-40	F7.4	Fraction of Cardiovascular Disease
41-47	F7.4	Fraction of Hypertension
48-54	F7.4	Fraction of Cancer
55-61	F7.4	Fraction of CVA
62-68	F7.4	Fraction of Other Illness

APPENDIX 4, TABLE 1, page 4

DATA KEY OF COMBINED UCI DATA AND FRACTION OF HOSPITAL DIAGNOSIS

File Name: UCI_HOSP.DATA

COLUMN	FORMAT	VARIABLE
1	F1.0	Aircraft
2-3	F2.0	Year
4-5	F2.0	Township
6-14	F9.2	No. of Events
15-20	F6.2	Average Pressure
21-27	F7.1	Avérage Carpet Area
28-33	F6.1	Cldn
34-40	F7.4	Fraction of Cardiovascular Disease
41-47	F7.4	Fraction of Hypertension
48-54	F7.4	Fraction of Cancer
55-61	F7.4	Fraction of CVA
62-68	F7.4	Fraction of Other Illness

This file is the combination of hospital data in fractions of five disease categories and exposure data.

APPENDEX 5

	AJR T	CRA			TOM:	\$01 \$K	•			SURE VEL				APPENDIX !	S		
4		F G B T E R	S 8 7 1	A L L	6 8	r e a	N & D I U N		A	P R E S U R E	\$ 0 U H •	FOR \$1	ION EGUATIO ATISTICALLY TOLMISHIP-U SONIC-BOOK	SIGNIFICA EVEL CRUDA	MIT CORRI	LATIONS ITY RATES A	
												REGRESSION LINE	RESIGUAL MEAN SO.	VE/	ui (Y)	\$.0. (X)	(7)
\mathbb{Z}	1											T= 7.91 + 454E-6*X	8.19	125.52	7.96	532.04	2.87
/	1	\prod								Z		v= 8.4237°x	8.21	1.21	7.96	0.51	2.87
Z	1	\int										Y= 6.43 + .045*X	8.12	33.77	7.96	7.96	2.87
	1	1										Y= 7.92 +423E-6*X	8.20	115.24	7.96	531.22	2.87
	\mathbb{Z}	1	┙									Y= 8.2001*X	8.20	41.90	7.96	36.74	2.67
			1									T= 7.67 + .03°K	7.99	10.29	7.96	17.98	2.87
	L		1									Y= 7.17 + .87*x	8.21	0.91	7.96	0.22	2.87
	L		4									Y= 5.58 + .08°K	7.91	30.93	7.96	7.49	2.87
_			\perp		Δ					Δ		Y= 9.0951*X	6.93	1.17	8.34	0.64	2.65
	\angle	1	┙		Δ			\angle				Y= 7.91 + 422E-6*X	7.14	754.67	8.23	1163.00	2.71
	L	\downarrow	4		Δ	_		\angle				Y= 7.79 + .025°H	5.68	88.82	8.51	26.47	2.46
	L	\downarrow	4	_	Δ	_				4	╝	Y= 10.18 - 1.46°X	5.91	1.00	8.52	0.25	2.46
	L	1	4	1	4				Δ			Y= 6.76 + 566E -6"X	5.95	3109.10	6.58	646.52	2.46
\angle	L	\perp	\downarrow	1	_		\bigcup			4	╛	Y= 8.89 - 1.21°X	8.99	1.01	7.63	0.33	3.02
	Ľ		\perp	\downarrow	_		\Box				╛	Y= 5.30 + .05*X	7.79	20.33	6.55	34.33	3.19
	\angle	1	\downarrow	\downarrow	\bot	_			\downarrow	_	⅓	7* -23.16 + .80°X	8.16	33.48	6.35	1.74	3.19
4	L	L	\downarrow	\downarrow	_	4		Δ	\perp		╛	¥= 7.30 + .37°x	8.54	1.36	7.80	1.24	2.95
4	L	L	\downarrow	\downarrow	_	4			_	4	\rfloor	7= 9.35 · 1.49*x	8.55	1.04	7.80	0.30	2.95
4	Ĺ,	L	1	1	4	4	_		\downarrow	_	4	Y= 4.18 • .14*x	8.27	25.11	7.80	4.80	2.95
_	4	L	\downarrow	\downarrow	_	4	\downarrow	_	4	\perp		Y= 8.21 + .01*x	8.20	81.43	7.97	36.47	2.87
4	4	L	\downarrow	\downarrow	_	4	4		\perp	\perp		7° 8.32 * .04*x	8.09	8.11	7.97	9.67	2.87
4	4	4	1	\downarrow	4	4	4	4	1	\perp	╛	7= 6.95 + .62°K	8.00	1.27	7.74	1.14	2.92
1	4	/	1	ļ	4	4	1	\downarrow	_	4	╛	T= 6.15 + 1.83*x	8.34	0.89	7.74	0.23	2.92

•	IRCR			TOM R1		•		-	OSUM EVEL	•		SEX				USE EATH	-				APPENDIX	<u> </u>		
A L L	\$ 1 G H T E R	S R 7	4 6 6	6 8	109		E V E B T			S O U M •	MALE	FEMALE	0 1 11	CABCER	N Y P E R	C A B I O	CVA	O T H E	FOR STATISTICALLY S AGE-ADJUSTED, CA	IGNIFICANT	CORRELATION SPECIF	ONS BETM	LITY RATES	LEVEL,
																			REGRESSION LINE	RESIDUAL MEAN SO.	(X)	W (T)	\$.D (X)	(7)
			_						Z								7		Y= .45 + .20°K	0.20	1.08	0.67	0.91	0.48
			\angle					\mathbb{Z}									Z		Y= .45 + .01*x	0.21	39.49	0.67	29.80	0.48
_	Δ		4				L	L	V	L			Δ				\angle		Y= .58 + .12°X	0.06	1.08	g.71	0.91	0.30
_	4	_	Δ			Ц		Z	1_	L			Δ				\angle		Y= .57 + ,01	0.08	39.49	0.71	29.80	0.30
4		_	4			Ц		L	V,	L	\square		\Box	Ц				Δ	Y= 6.37 - 1.05*X	3.01	1.15	5.17	0.43	1.78
4	$ \downarrow $	_	4					L	K	Ĺ.,	Ц	\triangle						Δ	7= 3.32 + .58*X	0.78	1.18	2.65	0.43	0.91
4	_	_	4					<u> </u>	Ļ,	K	Щ	Д	_	_				Δ	Y= 3.83 + .03°X	0.77	35.00	3.86	8.03	0.91
4	4	_	4		_		_	L	Ľ,	L		_	4	_				Δ	v= 4.81 + .80°x	1.47	1.13	3.88	0.43	1.25
_	4	4	4	4	4	Ц		L,	\angle		\angle	_ļ	\downarrow	_	_ļ	_	4	4	Y= 7.94 + 2.988°X	2.87	0.93	5.17	0.20	1.78
_	4	4	4	_	_	Ц		Z	ļ.,	Ļ	\angle	_	4	_	_	_	_	4	Y= 1.43 + .01°X	2.84	3290.20	5.17	536.21	1.78
4	4	4	4	_	_	Ц	_	L,	\mathbb{Z}			4	4	_	_	_	_	4	Y= 3.91 + 1.37°H	0.77	0.93	2.65	0.20	0.91
4	4	4	4	_	\dashv			K	-		\sqcup	4	4	_	_	_	_	4	V= 1.11 + 471E-6*X	0.78	329.20	2.65	\$36.21	0.91
4	4	4	4	_	긕		-	_		4	_	4	$\frac{1}{\sqrt{1}}$	4	4	4	4	4	Y= 3.83 + .04°X	0.80	88.06	2.65	6.28	0.91
4	4	4	4	4	\dashv	4		L	K	Ц		_	4	4	-	_	_}	4	Y= 5.87 + 2.13°X	1.41	0.93	3.89	0.20	1.8
+	4	4	4	4	4	-	_	Z	\vdash	_		4	4	4	4	4	4	4	7- 1.29 + 790E-6*X	1.41	3290.20	3.81	\$36.21	1.8
1	_1					\bot	_	L.,	Ш			\perp	丄			_]								

	RCR. TYP	AFT E	 	TOLA	SK SHIP		 	EXF	OSU EVE	_		i i i	SEX		1	_	WSE EATI			 		APPENDIX S			
_ A	F 1 6 M T E R	6 8 7 1	A L	#	1 0 0		E V E II T			P	\$ 0 U	H A L E	F E N A L E	0 0 1 1 1 1 1 1 1 1	C A D C E R	W Y P E R	C R D O	C A		FOR STATISTICAL	RESSION EQUATION LY SIGNIFICANT (, CAUSE: AMD SEI COUSHIPS AMD SON	CORRELATIO C- SPECIFI	US BETWE C MORTAL	EN COUNTY-L	LEVEL, IN
1 1	-			! ! !	 	 		1	1	1	1		 			! ! !	1	1	1	REGRESSION LINE	RESIDUAL	MEA (X)	H (Y)	5.0. (X)	(7)
1		Z		Z	 	 -	Z	/i-	-!- -	_ _ .	_ _	Z		- -	- -	<u> </u> 	Z	/	<u> </u>	 Y= 5.59 + .02*X	1.14	65.%	4.32	32.70	3.2
 -	<u>/</u>	;	! :—	Z,	<u> </u>	 !	!	Z	/ - 	_ļ.	_	2	 	 	! !—	Ľ	1 }	! !	<u> </u> _	x= 2.06 + .03*x	0.01	75.81	0.05	2.58	0.1
	Z	7	' 	4	<u> </u> _	<u> </u>	-	Z	-}-	_¦.	_¦		 	Z	 -	Z		! !	ļ_	 Y= 1.1201°X	0.01	75.81	0.03	2.58	9.0
.i. 1	— <u>i</u>	4	_	iZ 17		i	Z	<u>i_</u>	-i-	_i	7	4		 	Κ	j	<u> </u>	i	<u>i</u> _	y• 1.05 + .01°x	0.21	65.93	9.80	32.69	0.5
.1. 1	_ 	4	- .	5	_ 	<u> </u> -		 -	-j_ 	_K	<u>_</u> i	_		フ	4	<u> </u> _	i I	<u> </u> _	i_ 	Y= -3.60 + .03**		39.51	0.81	2.78	0.9
I. 	ا_ !	5	-	5	 	 	K.	<u> -</u>	- - 	-l-	7	-	-	7	7	\vdash	 	 	-	Y= 1.19 + .01*X 	0.14	43.94	1.54	32.70	0.4
.l.	7	<u></u> !	_	7		 	! !	 	!- !	_K	Z		-	_		 	! !	! !	- /	Y= -1.92 + .09*1			1.53	2.78	0.4
i	7	<u>'</u>	- '	7		 	 	 	. _ 	_ ! /		اے ا	7	<u> </u>	!— !	 	 	! !	 /	j y= 11.43 + .35°x 	0.21	45.67	4.69 2.54	5.35 5.35	1.3
Ĭ	Z	: !		7		_	! !	! !	! 	_K	Z	! !	<u>-</u>	7	<u> </u>	 	<u>'</u>	<u></u>		Y= 10.62 · .15*# Y= 10.62 · .15*#			3.61	5.35	1.1

	TYP	AFT E	\ 		SHIP SK		1 	EXPC LE	SUR		1 	SE	x	1 1 1 1.		-	USE EATI			(-			APPENDIK S	i		
A L L L L L L L L L	FIGNTER	S R 7 1 1 1 1 1 1 1 1 1	A L L L L L L L L L		L O U	H E O I H I H I I I I I I	E V E H T	C A P F T	P R E S S U R E	S O H D	H A L E				CAL	# V P E 2	C A D 1 O	C V A			FOR STATISTICALLY S	ION EQUATIO IGNIFICANT USE- AND SE	TABLE 4 MS AND RES CORRELATIO X- SPECIFI	IDUAL HE MS BETVE C MORTAL	EN COUNTY-L	IN LEVEL,
1		1	1	 	 	! ! !	 	! ! !		1	1	1		l 			! ! !	! ! !		1	REGRESSION LINE	RESIDUAL MEAN SO.	MEA	H (T)	i s.p. i (x)	(7)
-i	_	Z	/ 	 	 	Z	7	 	 	Z	トラ	Z	} - -	-!- -!-	! -! -!	_	Z	/_ - -	- -	-! 1 -! -!	Y= -3.51 + .07°X	0.14	33.20	2.08	1.21	0.41
	_	- -	_ - -	 	_ -	Z	<u> </u> -	! !	_ - -	Z	Z	 	!_ !_	ا۔	_ k	Z	 	Z	<u> </u>	-i -! -!	Y= 691E·7 + .01°X Y= ·7.26 + .24°X	0.00 0.13	21.27 33.31		17.65 1.33	0.06 0.47
_; _; _;	_	Z	 -	<u> </u>	! ! !		 	! -	! ! !	Z	Z	_ -	Z	۱ ۱. ۱.	! ! ! !	 	 	Z	<u> </u> _	 - -	Y= -4.80 + .17°K Y= -7.34 + .25°X	0.09 0.10	33.31 33.20		1.33	0.36 0.43
 - 		Z	 	 	 	Z]]1	 	 - 	Z	 	 	Z	71 -1-		i	_	Z		i !!	Y= -4.58 + .16°X	0.08	33.20		1.21	0.33

•	111	IA/I		TOM RI	SHIP			E NPC	SURE			SEX				USE EATH					APPENDIX	5		
4 6	f 1 6 8 T E R	5 8 7 1			f 0 A	# E O ! U M	E V E # 1	EARPET	P 8 8 8 U 8 E	S 0 U N 0	H A L E	FEMALE	801	CABCER		CARDIO	CVA	0 1 # 6	REGRESS FOR STATISTICALLY S AGE-AD-MISTED, CA LOW-RISK TOMS	USE - AND 9	TABLE 5 ONS AND R CORRELAT SEX- SPECI	ESIDUAL M IOKS BETM FIC MONTA	EEN COLMTY LITY BATES	·LEVEL,
																			FEGRESSION FEGRESSION	RESIDUAL MEAN SO.		EAN (T)	\$.(II)). (T)
7										V	\mathbb{Z}				Γ	7			Y= 10.04 - ,23°X	2.02	26.3	5 3.97	3.41	1.60
		7									7					7			Y= 9,17 · ,19°X	1.90	26.8	3.96	3.34	1.50
7					\overline{Z}										7				T= 327E-6 + .00*X	0,00	4.16	0.02	7.08	0.05
7												7			7				T= .01 + .80*x	.00	4.16	0.90	7.08	0.03
7			П			П				П			7		7		П		Y* .01 * .00*x	.00	4.19	0.02	7.67	0.03
	7				7		\mathbb{Z}			П	7	٦			/				Y= .01 + .01*x	0.01	1.67	0.02	3.82	0.05
					7		7					٦	7						4= .05 + .00*x	0.00	0.66	0.02	3.52	0.34
					7					Z		\overline{A}							¥*00. + 00. =Y	.00	26.00	9.01	3.34	0.02
7					7					7		7		7					Y= 3.47 + .06°K	0.36	24.38	1.26	3.40	0.65
					\mathbb{Z}	Ī		\neg		/	7		7	7					V= 3.6700*X	0.33	26.36	1.56	3.41	0.62
П					7	7				7	7								Y= 4.3709*x	0.52	26.62	1.84	3.34	0.77
П					1					7		7							Y= 3.2067°K	0.34	26.82	1.22	3.34	0.62
		7								7	T		7	7				٦	V= 3.34 · .06*x	0.28	26.82	1.51	3.33	0.58
И					/					7	7						1	٦	Y= 2.35 · .06*K	0.20	26.36	0.72	3.41	0.49
П			\neg	\exists	7	7		7		Z	7	1				٦	7	٦	Y= .67 + .02*x	0.24	6.82	0.81	6.67	0.51
П	7	\neg	7		7				7		7	7	7			7	7	٦	Y= .41 + .27*x	0.21	0.88	0.63	0.78	0.41
П	7	7	7		7	1		7		7		7	7		7	7	Z	٦	Y= .43 + .01*x	0.22	31.71	0.63	27	0.5
П	7	7	7		7	1	Ť		7	7	Ť	7	7	7	7	7	A	٦	Y= .48 + .02°x	0.23	6.82	0.63	6.67	0.5
П	7	7	1		7	1	1	7	7		ľ	7	7	1	7	7	7	٦	Y= ,55 + ,18°K	0.00	0.83	0.7	0.78	0.31
П	7	7	1		7	1	1	1	1	寸	7	Ť	7	7	7	7	7	٦	Y= .55 + .00*x	0.06	31.00	0.69	27.00	0.31
П	7	7	1		7	1	1	1	1	1	7	ſ	1	7	7	7	7	٦	Y= .59 + .02*x	0.08		6,70	6.67	0.31
П	7	7	7	Ĭ	7	7	7	1	1	7	t	7	1	7	7	1	7	٦	7* .40 + .04*x	0.14		0.55	4.17	0.39
N	1	7	1	1	1	Ť	7	7	7	7	1	7	7	7	7	1	1	T	Y= 9.87 - 4.64°x	2.86		5.30	0.24	1.98
N		1	1		7	1	7	Ĭ,	7	1	1	1	1	7	7	7	1	7	To 5.45 - 2.49°X	1.08	0.99	3,99	0.23	1.17
N	7	7	1	1	7	7	7	1	7	十	1	7	1	7	7	7	Ť	Z	V= 7.47 · 3,44°x	1.55	0.98	4.06	0.24	1.46
П	7	7	1	T,	1	1	7	T,	オ	1	オ	Ť	+	7	7	7	Ť	Z	7= 9.46 - 4.79*H	2.74		5.23		- 1
П	T,	7	1	Ť	オ	1	1	1	7	1	ォ	†	†	7	7	7	Ť.	7	Y=19 + .00°H	2.81		5.23	0.21 594.74	1.92
П	ť	7	7	Ť,	オ	\dagger	*	7	オ	Ť	†	7	†	+	+	7	4	K	T= 5.06 + 2.32*x	1.06	0.93	2.30	0.21	
\sqcap	Ť	7	+	1	1	+	†	\cancel{T}	+	+	1	1	+	+	\dagger	\dagger	+	K	T= .38 + 4774E-6°X	1.11	3278.40	2.92		1.13
H	Ť.	7	+	1	1	+	4	+	\forall	\dagger	+	†	7	\dagger	+	+	+	K	7- 7.24 - 3.40°H	1.57	9.92		594.74	1.12
1	1	1	†	1	1	\dagger	7	术	†	\dagger	十	ť.	+	+	\dagger	\dagger	\forall	k	7= ,13 = .00*x			4.01	0.21	3.43
H	ť	+	+	Ť	+	+	¥	+	+	+	十	十	+	+	+	+	4	4	ז"ט ט. + כו ו, ≻י	1.62	3278.10	4.01	594.74	1.43
Щ.	_	Щ.	ㅗ	ᆚ	Щ.	ㅗ	┸	ᆚ	ᆚ	_ـــ	ᆚ	1			丄									I

	AJRCI			TO.	AISI I SI		_			OSUI EVEL				SEX				USE EA71			APPENDIX 5
4	FIGUTER	\$ R 7 1	4	.] ı		F 0 A	M E D I U M	E V E N T	C A R P E T			\$ Q U N D	M A L E	FEMALE	0 1	CANCER	N V P E R	C A @ 0 1 0	CVA	0 T # E @	TABLE 6 REGRESSION EQUATIONS AND RESIDUAL NEAM SQUARES FOR STATISTICALLY SIGNIFICANT CORRELATIONS BETWEEN CAUSE-SPECIFIC PERCENT MORBIDITY AND SOULC-BOOM PARAMETERS WITHIN AIRCRAFT TYPE AND RISK AREA (TABLE 32)
																					REGRESSION RESIDUAL MEAN S.D. LINE MEAN SQ. (X) (Y) (X) (Y)
					T						7	7									Y= ,27 + .00 °K 0.01 37.67 0.39 7.44 0.10
	V									1											Y= ,04 + 239E-6°K .00 46.40 0.52 38.00 8.03
	\mathbb{Z}				1					Γ	\overline{V}	7					7		Γ		Y= .04 + 434E-6*K .00 21.42 0.05 22.18 0.03
				V					7		Ι	1					V				Y= .01 + 139E-7*K .00 3084.10 0.05 689.44 0.03
/						1		7			T	1					7	Г			Y= .07 + 848E-6°K 0.01 65.00 0.05 23.00 0.05
		\mathbb{Z}				1		/			Ι	Ţ					7	Γ			Y06 - 844E-6°H 0.00 15.00 0.05 23.18 0.05
		\angle				T			7		Ι	T				7					740 - 720E-7*X 0.02 3193.60 0.17 610.44 0.17
		\angle				7		/		Γ	Τ	1				7					Y= .2300°K 0.02 16.80 16.60 16.13 0.17
		\mathbb{Z}		V		I	\Box				1	T	1			7					V= .06 + .22°X
					1	T	I		7		Γ	T				/					Y= .49 - 104E-6°X -0.023 3084.10 0.166 689.44 0.17
					1	T	\exists		7		T	T									Y= .07 + \$14E-6*X
Z						1					Γ	T							\nearrow		Y=06 + 644E-6*X 0.00 15.00 0.07 23.12 0.04
						1						Ţ									7+ .06 + 638 E -6*X 0.00 15.00 0.07 23.18 0.04
			Z			I				/	Γ	I								/	7e .37 · .05°x 0.00 1.33 0.30 0.62 8.09
		Δ	_		L		\int		 		\mathbb{L}	I	\int							/	70 .4212°K 0.00 0.97 0.30 0.23 0.95
	_[Δ				\int	\int		Z			\int	\int							1	7= .12 + 558E-7*N 0.01 3193.60 0.30 610.44 0.09
4				\angle	L					Z		Ι	\int	\int	\int		J			7	T= .3505°R 8.81 1.38 8.28 0.74 0.08
_	_	4		Z	L	I		4				\prod		\int	I					Z	Ye .26 + 1.01°x 0.00 16.33 0.20 16.18 0.09
	_	4		\angle	L					Z		\prod	I	\int	\int	\int					T= .4170 \ .14°x
	_]											T	T	T	T			1	T	٦	

APPENDIX 6, TABLE 1

SHOKING HABIT AND ALCOHOL USE

		1			
	Number	×		Mean	S.D.
	:	:		:	:
Smoking Kabit:			Age Started (N=26):	18.48	5.46
Never Smoke	=	37.90			
Current Smoker	t	51.73			
Ex-Smoker	m	10.30		Number	н
				:	į
			Frankon of Brisk.		
		c			
			>eb =	~	07.70
For Smoker (N=18):			Meanly Everyday	-	3.80
Age Started:	16.36	2.71	3.4 times a week	-	38.5
			1-2 times a week	12	66.20
			2-3 times a month	n	11.50
			1 time a month	•	11.50
	Mean	S.D.	less than 1 a month,		
	:	:	but at least 1 a year	7	15.40
Total Years:	21.12	12.26			
				Number	×
			•	:	:
			No. of Drinks		
	Kes	S.D.	per Occasion:		
	:	:	11 Drinks or More	-	3.80
Average Packs:	1.53	0.72	7-8 Drinks	-	3.80
			5-6 Drinks	•	23.10
			3-4 Drinks	•	23.10
			1-2 Orinks	1	02.97

APPENDIX 6, TABLE 2

FAMILY HISTORY AND NEDICAL HISTORY

	Yes	*	2		Unknown	
	Number	×	Number	×	Kunber	×
Family History:	:	:	:	:		
Angina	-	3.4	82	9.8	•	0.0
Diabetes	•	20.7	ສ	۳. ۲.	•	0.0
Heart Disease	•	20.7	22	۲. ج	0	0.0
Kidney Disease	~	6.9	27	93.1	0	0.0
Mypertension	•	17.2	*	82.8	0	0.0
Sleep Disorder	~	6.9	27	93.1	0	0.0
Higraine Headaches	60	27.6	.≈	7.2	0	0.0
Emotional Problem	m	10.3	92	7.68	0	0.0
Stomach Ulcer	~	1.72	2	7.9 9.	0	0.0
Noise Induced Nearing Loss	•	13.8	\$	2.98	23	72.4
Other Diseases	m	10.3	•	17.2	0	0.0
Medical History:						
Seeing Doctor Regularly	12	41.4	. 17	58.6	0	0.0
Considered in Good Health	22	93.1	7	6.9	0	0.0
Take Medication Regularly	•	20.7	22	8.8	-	3.4
Weight Changed by 101bs						
During the Last Year	40	27.6	₹	7.2	0	0.0
Followed Special Diet	•	27.6	2	0.69	-	3.6

APPENDIX 6, TABLE 3

DIET HISTORY

	Mulber	×	
	:		
Weight Changes:			
Nigher	.	62.5	
Lower	M	37.5	
Resson of Changes:			
Diet	m	37.5	
Other	m	37.5	
Unknown	~	25.0	
Special Diets Followed:		Age Started:	Years followed:
	Number	(Nean +/- S.D.)	(Nean +/- S.D.)
Low Salt	•	40.0 +/- 15.2	8.0 +/- 2.5
Low Protein	-	· . 0.09	5.0
High Protein	2	51.0 +/- 12.7	7.5 +/- 3.5
Diabetic	-	50.0	15.0
Lowfat	~	51.0 +/- 12.7	7.5 +/- 3.5
Allergy	~	15.5 +/- 14.8	1.5 +/- 0.7

Number of cases were 8.

NEALTH PROBLEMS

1	Yes		Age	OH.	
	Number	*	(Nean +/· S.D.)	Number	×
Allergies	40	27.60	18.62 +/- 13.35	12	72.40
Angine	-	3.40	42.00 +/- 0.00	58	8.60
Repeated Infection	~	7.10	16.00 +/- 0.00	92	92.90
Diabetes	-	3.40	50.00 +/- 0.00	9 2	3.8
Heart Disease	~	6.9	53.00 +/- 15.56	22	93.10
Chronic Bronchitis	m	10.30	18.67 +/- 12.10	\$2	66.70
Tuberculosis	0	0.0		&	100.00
Pnecamonia	•	13.80	28.75 +/- 26.87	æ	86 .≥0
Lung Cancer	0	0.0	0.00 -/- 0.00	&	100.00
Emphyseme	•	0.0	•	&	100.00
Fibrosis of the Lung	•	9.0		&	100.00
Kidney Disease	0	8.		&	100.00
Hypertension	~	6.9	34.00 0.00	22	93.10
Steep Disorder	-	3.40	unknown	\$2	8.8
Asbestos Disease	0	0.0		&	100.00
Migraine Neadache	m	10.30	32.00 +/- 10.15	92	89.70
Emotional Problem	0	0.0		&	100.00
Mesothel iona	0	9.0		&	100.00
Silicosis	0	9.0		&	100.00
Stomach Cancer	0	0.0		&	100.00
Bronchial Asthma	m	10.30	29.33 +/- 11.15	92	89.70
Noise-Induced Nearing Loss	-	3.60	5.00 +/- 0.00	72	96.40
Cancer of the Colon	0	9.0		&	100.00
Cancer of the Esophagus	0	0.0		&	100.00
Cancer of the Bladder	0	9.0		&	100.00
Other Cancer	-	3.40	nutronn .	58	9.96
Other Disease Described	•	00.0	•	8	500

EXPLOSURE MISTORY

								į
-	Mumber	*	(Mean +/·	5.0.)	Number	*	Number	*
Avocational Exposure:								
Compressed Air	~	19.X	9.33 +/-	11.15	2	3.8	•	5.3
Engine Exhausts	7	24.14	19.40 +/-	21.12	4	65.52	•	10.3%
Loud Moise	2	44.83		15.98	71	48.28	~	6.9
Paint, Solvents, Glues	5	87. X	20.86 +/-	17.10	17	58.62	~	6.9
Exposure at Work:								
Adhesive	₽	51.72	12.73 +/-	70.6	71	48.28	0	0.0
Alcahol	2	¥.48	9.71 •/-	6.87	<u>\$</u>	65.52	٥	9.0
Arsenic	-	3.45	7.00 +/-	0.00	28	96.55	•	8.
Asbestos	~	24.14	12.00 +/-	20.31	22	75.86	0	8.0
Benzene	m	7.0	24.50 +/-	33.23	\$2	12.98	•	3.45
Beryll i.m.	-	3.45	13.00 +/-	0.00	92	89.66	~	8.9
Cachrica	-	3.65	1.00 •/-	9.0	92	99.69	~	8.9
Carbon Disulfide	0	9.0	•		22	93.10	~	8.8
Carbon Tetrachloride	€0	27.59	5.71 +/-	6.65	2	68.97	-	3.45
Chromates	-	3.45	2.00 +/-	0.00	92	99.66	~	8.9
Chronic Acid Hist	0	0.00	•	•	<i>2</i> 2	93.10	~	8.9
Fiberglass	•	27.59	8.00 •/·	8.25	23	12.41	0	0.0
fluorides	•	50.69		17.68	21	12.41	~	8.9
I socyanates	m	10.34	27.50 +/-	28.99	%	82.76	~	9 .9
peal	•	50.69	18.20 +/-	16.81	22	κ 8	-	3.45
Hetal Priming	•	50.69	8.60 +/-	5.77	2	3.8	-	3.45
Hicrowaves	•	31.03	7.62 +/-	3.%	6	65.52	-	3.45
Noise	2	68.97	10.69 +/-	8.32	•	31.03	•	9.0
Pesticides	8 0	27.59	7.73 +/-	6.90	23	72.41	0	0.00
Radioactive Material	12	41.38	10.33 +/-	9.87	3	55.17	-	3.45
Solvents/Degreasers	*	48.28	13.90 +/-	8.71	15	51.72	0	9.0
Sonic Booms	19	65.52	8.20 +/-	7.27	2	34.48	0	0.00
Spray Painting	\$	51.72	12.70 +/-	6.65	2	48.28	0	9.0
Tricholorethylene	12	41.38	9.56 +/-	8.14	\$	55.17	-	3.45
Vinyl Chloride	-	3.45	3.00 +/-	0.00	27	93.10	-	3.65
Welding/Soldering	17	58.62	15.75 +/-	10.64	21	41.38	0	0.00
Wood Dust	=	37.93	10.86 +/-	7.58	5	62.07	0	9.0
Insulation Material	60	27.59	7.80 +/-	86.98	~	72.41	0	0.0
					•		7.	

RESIDENTIAL EXPOSURE TO SONIC BOOM

	*	BY PERSON (H=21)	*	BY SITE (N=76)
	Number	Percentage	Number	Percentage
Demage to Objects and Building:	ı			
.	•	28.57	18	23.68
2	•	38.10	52	23.68
Don't Know	s	23.81	=	14.47
Unknown	~	9.52	&	38.16
Soon Per Tear:				
>10	•	19.05	16	21.05
10+ - 100	=	52.38	25	\$0.73
100+ · 1000	m	14.29	4	21.05
1000t	-	4.76	~	2.63
Unknown	~	9.52	=	14.47
Degree of Cancern:				
· No Concern	•	19.05	.	6.57
Disturbing	•	28.57	9	13.16
Annoying	m	14.29	60	10.53
Highly Armoying	~	9.52	10	13.16
Unknown	٠	28.57	3	56.58
Location:				
In Mevada	5	47.62	82	38.38
Out-of-State	۰	45.86	97	60.53
Unknown	~	0 52	•	27 6

. U S GOVERNMENT PRINTING OFFICE 1808 - 646-006/40203

